#### Exhibit 19

#### COMMUNITY FACILITIES IMPACT

Please refer to Exhibits 18 and 21 of the Final Subdivision Application for information regarding the development's impact on community facilities.

20

#### Exhibit 20

#### DEVELOPMENT IMPACT FEES

Please refer to Exhibit 21 of the Final Subdivision Application for an estimate of the development's impact fees.

## SUBDIVISION / SITE PLAN PRE- APPLICATION

### VILLAGE AT LITTLE FALLS

Route 202 Tax Map 38, Parcels 6&7 Windham, Maine

Prepared For:
HRC – Village at Little Falls, LLC
2 Market Street
Portland, Maine 04101

March 2007



Prepared by: Northeast Civil Solutions, Inc. 153 U.S. Route 1 Scarborough, ME 04074

29522

VIL\_RESP02852

# SUBDIVISION PRE- APPLICATION

### VILLAGE AT LITTLE FALLS

Route 202 Tax Map 38, Parcels 6&7 Windham, Maine

Prepared For:
HRC – Village at Little Falls, LLC
2 Market Street
Portland, Maine 04101

March 2007

29522



Prepared by:
Northeast Civil Solutions, Inc.
153 U.S. Route 1
Scarborough, ME 04074



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### Northeast Civil Solutions

INCORPORATED

153 U.S. Route 1

Scarborough

Maine 04074

March 2, 2007

Mr. Roger Timmons, Community Development Director Town of Windham

25 School Street

Windham, ME 04062

RE: Village at Little Falls, Pre-Application / Sketch Plan

Dear Roger,

Enclosed please find the necessary materials for a Pre-Application / Sketch Plan submittal for the development of 85 units consisting of apartments, townhouses, porch units, cottage units, and a single-family unit. As you are aware a Village at Little Falls contact zone has been approved for this project. A copy of the contract zone can be found in the Appendix of this application for your reference.

A meeting with Marybeth Richardson (DEP) and James Pellerin (IF&W) was held on-site in late January to discuss the project and concerns raised by IF&W. In order to address the concerns raised at the meeting the site layout was significantly revised to incorporate a riverbank restoration where the mill building currently stands. It was also determined that the wetland created from the outfall of a culvert that discharges under the railroad bed, in the northeast corner of the site, is a "man made channel" and that the filling of the channel (740 sf of fill) was acceptable to the DEP. The flow from this culvert will be intercepted by a closed drainage system and treated prior to discharge into the Presumpscot River. All of these aforementioned activities will be permitted in a full National Resources Protection Act (NRPA) permit and Site Location of Development Permit.

A coordination meeting was also held with the Portland Water District to discuss the water and sewer layout in late February. Comments from the water district were incorporated into the design and layout of the sewer and water utilities which will be owned and maintained by the water district through an easement agreement with the Village at Little Falls.

tei

207.883.1900

300.882.2227

fax 207.883.1001 Roger Timmons, Community Development Director Town of Windham March 2, 2007 Page 2 of 2

If you should have any questions or comments please feel free to contact me at any time. We look forward to meeting with you to discuss this project further and presenting this to the planning board.

Sincerely,

Northeast Civil Solutions, Inc.

Lee Allen, P.E. Project Manager

Cc: Renee Lewis, HRC-Village at Little Falls Steve Etzel, HRC-Village at Little Falls Charlotte Maloney, Gawron Turgeon Architects Paul Destefano, Oak Engineers

## TOWN OF WINDHAM, MAINE MAJOR AND MINOR SUBDIVISION PLAN APPLICATION FORM – Preapplication/Sketch Plan

gradien in georgia

(Ordinance Chapter 213 Article IV)

The preapplication/sketch plan application shall include fifteen (15) copies of each plan, map, or drawing, and any related information which shall be printed or reproduced on paper.

	Check when cor	mpletec
	Applicant	Staff
Name of Applicant: HRC – Village at Little Falls, LLC c/o Steve Etzel	X	
Mailing Address: 2 Market Street, Portland, Maine 04101	X	
Phone: 207-772-7219	X	
FAX: 207-772-7011	X	
Email: setzel@questorco.com		
Name of Subdivision: Village at Little Falls	X	
Street Address: Route 202, Windham Maine	X	
Proposed Use: Residential Condominiums	X	
Proposed subdivision X Major Minor	X	
Amendment to previously approved subdivision plan? Yes No X	X	
Total acreage of parcel(s): 8.03 ac	X	
Zone (check all that apply)  Resource Protection Limited Residential Aquifer Protection Overlay Farm Light Density Residential Commercial I Commercial II Commercial III  Z General Shoreland Development X Stream Protection Industrial Park Overlay Farm Residential RM Medium Residential Commercial II Industrial	X	
Enterprise Development X Contract; Date Approved 6/01/05		
Proposed single family cluster development?  Yes No X Proposed multi-family cluster development?  Yes No: X	X	
Conditional Use Yes No: X	X	
Special Exception YesNo: X	X	
The Town will correspond with only one contact person/agent for this project. Please provide the requested information regarding the contact person/agent.		
Contact person/agent: Northeast Civil Solutions, Inc. c/o Lee Allen, PE	X	,
Mailing Address: 153 US Route One, Scarborough, Maine 04074	X	
Phone: 207-883-1000	X	
Cell: 207-210-7726	X	

Cell: 207-210-7726	X
obbunseq	VIL_RESP02857  1. Major is them Substitution Floor Photopolication Sketch Floor

FAX: 207-883-1001	X	
Email: lee.allen@northeastcivilsolutions.com	X	
I certify that I received and read the PLANNING BOARD APPLICATION PROCEDURES AND REQUIREMENTS and that all the information in this		
application form and accompanying materials is true and accurate to the best of my knowledge.		
Signature of Applicant (If signed by applicant's agent, provide written documentation of authority to act on behalf of applicant.)	X	
Print or type name and title of signer Lee Allen, P.E., Project Manager	X	
Date Prepared: March 2, 2007	X	

## Subdivision Plan Preapplication/Sketch Plan EXHIBIT CHECKLIST

Please mark each exhibit in the application as follows:

EXHIBIT	1	Soils
EXHIBIT	2	Covenants and Easements
EXHIBIT	3	Community Facilities and Utilities
EXHIBIT	4	Description of Project
<b>EXHIBIT</b>	.5	Cluster Development
EXHIBIT	6	Right, Title, or Interest
<b>EXHIBIT</b>	7	Corporate or Partnership Status



## Northeast Civil Solutions

INCÓRPORATED

157 E.A. Boss, 4

Scarborough

Maine 999"4

February 12, 2007

To Whom It May Concern:

RE: Village at Little Falls, LLC

207.883.1094

800.881.1257

fax 207,883.1006 I, Steve Etzel, on behalf of HRC-Village at Little Falls, LLC, authorize Northeast Civil Solutions, Inc. to sign any and all applications, plans, permit requests, and other paperwork in conjunction with obtaining final municipal and state approval for the Village at Little Falls residential development on Route 202 in Windham, Maine.

Steve Etzel

1, Via Pre

Date

TES 1 4 2007

#### Subdivision Plan Preapplicatio/Sketch Plan Application

A preapplication/sketch plan must be submitted and shall show, in simple sketch form, neatly done, the proposed layout of streets, lots, and other features in relation to existing conditions (Section 213-6.B. and, if a proposed cluster development, Section 140-36). The preapplication/sketch plan shall include the existing data listed below:

	Check when completed		
	Applicant	Applicant	
I. SUBDIVISION PLAN DRAWINGS AND MAPS showing or accompanied by the following information:			
A. Subdivision Plan drawings			
1. Number and date all sheets and provide space for revision dates	X		
2. Show all dimensions in feet and decimals, drawn to a scale of not more than one hundred (100) feet, preferably forty (40) feet, to the inch	X		
3. Layout of lots and other features in relation to location of open drainage courses, wetlands, stone walls, graveyards, fences, stands of trees, and other important or unique natural areas and site features, including but not limited to floodplains, deer wintering areas; significant wildlife habitats, fisheries, scenic areas; habitat for rare and endangered plants and/or animals; unique natural communities and natural areas; sand and gravel aquifers; and historic and/or archaeological resources; together with a written description of such features (Section 213-6.B.)	X		
4. Boundary lines (Section 213-6.B.1.)	X		
5. Location and width of existing and proposed easements (Section 213-6.B.2.)	X		
6. Location, name, and right-of-way width of existing and proposed streets on and adjacent to the property (Section 213-6.B.3.)	X		
7. Walks, curbs, gutters, culverts and other known and located underground structures, within and immediately adjacent to property (Section 213-6.B.4.)	X		
8. Utilities (Section 213-6.B.5.) a. Location and size of proposed and existing sewer and water mains	X		
b. Location of fire hydrants, electric, and telephone poles	X		
c. Location of proposed and existing streetlights	X		
9. Soil test data, accompanied by a written description, identified as EXHIBIT 1, adequate to show that the subsurface soil conditions on the tract will accommodate the proposed development (Section 213-6.B.6.)	X		
10. Existing land use on and adjacent to the property (Section 213-6.B.7)	X		
11. Show the entire parcel(s) and zoning on and adjacent to property	X		

11. Onon the chine pa	recita) and zoma	S OH 4	na adjacent to property	4		
	-17-19070-Wt			<del></del>	1	
Appeased				VIL	_RESP(	2860
Astronomical and the state of t		ä	Majer Mires Sobeh Isler. H	ju Prespolizacjem i	sketch Plan	

	Check when con	pleted
	Applicant	Applicant
12. Location of temporary markers adequate to enable the Planning Board to locate readily and appraise the basic layout of the site in the field (Section 213-8.B.13.)	X	
B. Title Block		
1. Identify plan as "Subdivision Plan", "Amended" if applicable	X	
2. Name of the project (Section 213-6.B.8.)	X	
3. Name(s) and address(es) of owner(s) of record and applicant (Section 213-6.B.8.)	X	
4. Name(s) and address(es) of plan designer(s)	X	· · · · · · · · · · · · · · · · · · ·
C. Plan References		7
1. North arrow (using Maine State Grid) (Section 213-6.B.8.)	X	
2. Graphic map scale (Section 213-6.B.8.)	X	
3. Purpose of existing and proposed easements (Section 2136.B.2.)	X	
4. Names of adjoining property owners (Section 213-6.B.8.)	X	
5. Name(s) and address(es) of plan designer(s)	X	- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
D. Utility Notes		5.77
If sewer or water mains are not on or adjacent to the site, indicate the distance to and size of nearest mains (Section 213-6.B.5.)	X	
E. Additional Information Notes		
Any additional or general plan notes	X	
II. GENERAL INFORMATION		76 Med 6 7
A. Existing zone(s) of the site: Contract	X	- Andrew Charles
Shoreland District Yes X No Type	X	<u>:</u>
Overlay District Yes No Type	X	
Contract Yes X No Date Approved 6/01/05	X	
B. Attach, as <u>EXHIBIT 2</u> , summary list and copies of all existing covenants (Section 213-6.C.1.), easements, or other burdens for this property. Reference each easement to the plan or drawing on which it is shown.	X	2005 1119
C. Attach, as part of <u>EXHIBIT 1</u> , a medium intensity standard soil survey (Section 213-6.C.2.)	X	<del></del>
D. Attach, as EXHIBIT 3, a written description of available community facilities and utilities (Section 213-6.C.3.)	X	
III. PROJECT DESCRIPTION		andra (
A. Attach, as <u>EXHIBIT 4</u> , a written description of the overall project, including number of lots, typical lot width and depth, price	X	grafia de la prima de la companya d
range, business areas, playgrounds, park areas, other public areas, proposed protective covenants, and proposed utilities and street improvements (Section 213-6.C.4.)		
B. Name, approval date, amendment date, and lot number (if applicable) of previously approved subdivision (if applicable)	NA	

	VIL_	$_{ t L}$ RESF	P02861
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	Check when completed	
	Applicant	Applicant
IV. CLUSTER DEVELOPMENT		
A. If subdivision is on 20 gross acres in the Farm District or on 10 acres in the Farm Residential District:  1. provide a conventional plan and a cluster subdivision plan (Sections 140-21.F, 140-22.F., and 140-36.A.4.) and	NA	
2. attach, as <u>EXHIBIT 5</u> , a written description of how each plan addresses the goals and objectives of the Town's Comprehensive Plan with respect to preservation of rural character, open space, and natural resources while ensuring that the proposed subdivision can be served by either existing or planned infrastructure (Section 140-36.A.5.)	NA	
B. If subdivision is proposed as a multi-family cluster development, attach, as <u>EXHIBIT 5</u> , a written description of how it addresses requirements for:  1. buffer of the perimeter of the parcel, pedestrian access to required open space (Section 140-36.B.3.a.)	NA	
2. minimum distances between adjacent principal buildings (Section 140-36.B.3.b.)	NA	
3. allowable density based on net residential density (Section 140-36.B.3.c.)	NA	, , , , , , , , , , , , , , , , , , , ,
V. RIGHT, TITLE, OR INTEREST		
A. Name, mailing address, phone, and fax number (if available) of record owner of the site	X	
Name: HRC – Village at Little Falls, LLC.	······································	
Address: 2 Market Street, Portland, Maine 04101	1 W 2%	. 4.5
Phone: 207-772-7219		,
FAX: 207-772-7011	1	
B. Attach, as EXHIBIT 6, evidence of applicant's right, title, or interest in the site, including a complete copy of the:  • applicant's deed (financial information may be deleted) <u>or</u>	X	
<ul> <li>applicant's right or interest in the site <u>and</u> the current owner's deed for the site (if not already in applicant's ownership).</li> </ul>		- 15 -V-5 -
Cumberland County Register of Deeds Book 20753 Page 21 and Book 24617 Page 165	X	
C. <u>If</u> applicant is not an individual, attach, as <u>EXHIBIT 7</u> , evidence of corporate or partnership status	X	
D. If applicant has interest in abutting property(s), identify by Tax Office's Map and Lot number(s) Map Lot Map Lot Map Lot Lot Map Lot Lot	NA	

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	Soils Report	
2	Covenants & Easements	
3	Community Facilities & Utilities	
4	Description of Project	
5	Cluster Development	
6	Right Title or Interest	
7	Corporate or Partnership Status	
	VIL_RESP02864	4



#### EXHIBIT 1

#### SOILS

In lieu of the medium intensity soil study, a detailed geotechnical investigation was performed by Paul DeStefano, PHD., P.E. of Oak Engineers. A copy of the geotechnical investigation is attached.

The soil boundaries shown on the attached plan set was taken from the Cumberland County SCS Soil Maps. The following soils are encountered on the site:

Cu – Undorthents – Hydrologic Soil Group C HrB – Hollis Fine Sandy Loam – Hydrologic Soil Group C Py – Podunk Fine Sandy Loam – Hydrologic Soil Group B HfD2 – Hartland Very Fine Sandy Loam – Hydrologic Soil Group B Sn – Scantic Silt Loam – Hydrologic Soil Group D

The existing wetland area is delineated on the attached existing conditions plan. The wetland area located is the result of a man-made drainage channel. This drainage channel will be filled as a result of the development. The stormwater from the channel will be redirected into the proposed catch basin network.



February 27, 2007

Project 064006

Lee D. Allen, P.E. Northeast Civil Solutions 153 U.S. Route 1 Scarborough, Maine 04074

RE:

Geotechnical Investigation Village at Little Falls, LLC 7 to 13 Depot Street South Windham, Maine

Dear Mr. Allen:

Oak Engineers, LLC (Oak) has completed a geotechnical investigation of the above site in accordance with our agreement entitled *Geotechnical and Structural Engineering Services* authorized on January 3, 2007. The purpose of this investigation is to provide geotechnical design recommendations related to the proposed construction at the above location (the Site).

#### PROJECT REQUIREMENTS

We understand that the existing Site will be developed into a multi-unit condominium development. According to proposed site *Grading and Drainage Plan* by Northeast Civil Solutions (Site Engineer) dated February 16, 2007, the development will consist of twenty-five, one- and two-story, wood-framed residential structures, two 12-unit, three-story apartment buildings with at-grade accessed parking underneath, and associated access roads and driveways as depicted in Figure 2 of Attachment A.

The existing topography consists of rolling terrain and previously developed land. According to the proposed grading plans, a maximum of approximately 20 feet of fill and 15 feet of earth cut will be required to level the site beneath the proposed buildings and pavements. Based on revised planes, we understand that the existing site structures and building will be completely demolished and disposed off site. The Maine Department of Inland Fisheries and Wildlife has required that the proposed development restore the riverbank along the Presumpscot River upon demolition of the existing mill building. In accordance with this requirements, the riverbank area is to be reconstructed to a slope with maximum grades of 2H:1V. The toe of slope will be stabilized with riprap, while the remainder of slope will be stabilized through a series of vegetative techniques recommended by the US Army Corp of Engineers (ACE) when stabilizing riverbanks. Additionally, a permanent earth retaining wall extending as much as 26 feet above adjacent grades will be required adjacent to the existing power plant and river.

According to the site *Grading and Drainage Plan* and conversations with the site engineer's office, the proposed storm water system will be a watertight underground storage system composed of 5-foot diameter pipes located at station 51+00 right, between the proposed homes and the Presumpscot River.

Brown's Wharf • Newburyport, MA 01950 T: 978,465.9877 • F: 978,465,2986

400 Commercial Street + Suite 404 • Portland, ME 04101

T: 207.772.2004 • F: 207.772.3248

www.oakengineers.com

Mr. Lee D. Allen, P.E. Northeast Civil Solutions

Based on our understanding of the proposed construction, maximum anticipated foundation loads are estimated as follows:

- I. Interior Columns = 80,000 pounds
- 2. Exterior Columns = 60,000 pounds
- 3. Load Bearing Walls = 2,000 pounds/foot
- 4. Floor Slabs = 50 pounds per square foot (psf) or 3,000 pound concentrated load

Maximum total and differential building foundation settlement tolerable is assumed to be one inch and one-half inch respectively.

#### DESCRIPTION OF SITE AND GEOLOGY

The Site is approximately 8.0-acre in area and located on the south side of Depot Street in South Windham, Maine. A Site Location Plan is shown on Figure 1. The Site is currently developed with an abandoned, three-story, concrete and masonry, mill building bordering the north and east banks of a bend in the Presumpscot River. The building is approximately 60,000 square feet in plan area and abuts an existing power plant structure associated with the adjacent Little Falls dam. Three, one-story, wood-framed buildings are also located on the northeast comer of the proposed development.

Existing site grades decrease to the south and east, towards the abutting Presumpscot River. Based on Northeast Civil Solutions (Site Engineer) site plans, grade elevations range by approximately 40 feet cross the Site, with the highest elevations of 132 feet (NGVD 29) located near Depot Street on the northeast corner of the property and the lowest site elevations of 92 feet being located along the banks of the Presumpscot River. A Subsurface Exploration Plan depicting the proposed construction along with existing site topography is shown as Plan C1 in Attachment A. Final building and site grades are currently under development.

According to information provided by the U.S. Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) website, soils in the vicinity of the Site are predominantly cut and fill land (approximately 83 percent of site area) and smaller areas of Hollis series soils (9.4 percent) and Scantic series soils (5.2 percent). Hollis series soil consist of shallow, well drained granular soils formed in a thin mantle of till derived mainly from gneiss, schist, and granite. The Scantic series soils consist of very deep, poorly drained soils formed in glaciomarine or glaciolacustrine deposits on coastal lowlands and river valleys.

Based on a review of Surficial Geology Map of the Gorham Quadrangle, Maine (Smith et al, 1999), regional surficial soils likely consist of massive to laminated gray and blue-gray silt and silty clay of the Presumpscot Formation. This soil deposit is variable in thickness from less than 1 meter to more than 50 meters. According to Bedrock Geology of the Portland 1:100,000 Quadrangle, Maine and New Hampshire, (Berry, Hussey, et al, 1998), bedrock underlying the Site likely consists of flaggy, bluish to purplish-gray, biotite-quartz-plagioclase granofels of the Hutchins Corner schist formation.

#### SCOPE OF INVESTIGATION

#### Subsurface Exploration

In general, subsurface exploration methods consisted of field test pit excavations and soil test drilling. Eighteen test borings (B101 through B118) were advanced with 3½-inch inside diameter (i.d.) hollow-stem steel augers, at the approximate locations indicated on the attached plan included as Attachment A, to a maximum depth of 32 feet below the ground surface (bgs). Soil samples were obtained from each test boring with split-barrel spoon samplers at continuous and nominal 5-foot intervals as directed by Oak's geotechnical engineer. Standard penetration resistance tests were performed and recorded at each sampling interval in accordance with ASTM D 1586 procedures. At soil boring B114, a single undisturbed soil sample was extracted from the underlying soil layers using a thin-walled Shelby tube in according to ASTM D 1587 procedures. Two 5-foot NQ rock core samples were collected from B104 and B105, from approximately 3 feet to 8 feet bgs. Both the soil and rock samples were returned with the field drilling logs to Oak's office for further analysis and review. Final soil boring logs were prepared by an engineer on the basis of our visual classification of soil samples, laboratory test results, and field drilling logs and are included as Attachment B.

Additionally, ten test pits (TP101 to TP107; TP109 to TP111) were excavated at the approximate locations indicated on the attached plan included as Attachment A, to a maximum depth of 6.5 feet bgs. Soil samples were reviewed and classified in the field in accordance with ASTM D 2488 Visual-Manual Procedure. Final test pit logs were prepared by an engineer on the basis of our visual classification of soil samples and field test pit logs and are included as Attachment B.

#### Laboratory Testing

Soil samples were visually classified by a geotechnical engineer in general accordance with ASTM D 2487 Unified Soil Classification System (USCS) in Oak's office. Selected split spoon and Shelby tube soil samples were transported to certified soil testing firm's offices (John Turner Consulting, Inc., of Dover, New Hampshire and Geotesting Express, of Boxboro, Massachusetts) for laboratory analysis and testing. Laboratory testing included sieve analyses, Atterberg limits, and moisture contents for submitted split spoon samples. Additional testing included consolidated undrained (CU) triaxial compressive strength and consolidation testing from Shelby tube samples. All testing was conducted in accordance with accepted ASTM procedures. Complete laboratory analysis and test results are included in Attachment C.

#### Geotechnical Evaluation

The geotechnical engineer evaluated subsurface conditions relative to the proposed development on the basis of field reconnaissance and subsurface exploration, project description, local geology, and laboratory analysis and testing in accordance with generally accepted geotechnical engineering principles and practices. According to our agreement, the geotechnical engineer evaluated conditions and provided recommendations for the following project elements:

- 1. Site Preparation
- 2. Building Foundations

#### Mr. Lee D. Affen, P.E. Northeast Civil Solutions

- 3. Excavation and Dewatering
- 1 Earth Retaining Structures
- 5. Underground Utilities and Subsurface Infiltration Systems
- 6. Floor Slabs on Grade
- 7. Pavements.
- 8. Fill and Backfill
- 9. Construction Quality Control

#### SUBSURFACE CONDITIONS

#### Soil Test Boring and Test Pit Results

Apparent Subsurface Profiles of the proposed construction and existing topography and interpreted soil profiles are shown as Plan C2 in Attachment A. A summary of ASTM D 2487 soil classifications for samples recovered from all test borings is shown in the table below. A description of each soil classification is defined in Attachment B.

Table 1: Summary of ASTM D 2487 Soil Classifications

Depth	(ft.)	B101	B102	B103	B104	B105	B106	B107	B108	B109	B110
From	Τσ		<b>D</b> 102	<b>D</b> 103	Digg	<b>D</b> ,03	Dioo		2100	Dios	DITO
0	2	SM	SM	SM-ML	SM	SM	ML	ML	ML	sw	ML
2	4	SM	ML	SM-ML	ML	ML	ML	ML			ML
4	6	CL	ML	SM-ML			ML			ML	ML
6	8	CL	ML	SM-ML							
8	10	CL		GM-8M				:			
10	12	CL		GM-SM							71.
15	17	CL									
20	22	CL									

Page 4

Depth From	(ft.) To	B111	B112	B113	B114	B115	B116	B117	B118	B119
С	2	SM	S⋈	GM-SM	SMI	SM	Siví	SM	SM	SM
2	4	SM		GM-SM	SM	SM	SM	SM	SM	SM
4	6	SM		GM-SM	SM	SM		SM	SM	SМ
6	8			GM-SM	SM	SM		SM	SM	ML
8	10			SM	SM	SM		SM	SM	ΜL
10	12			SM	SM	SM-OL		SM	SM	, i
15	(7			ML	SM	SM		CL		
20	22				CL	CL				
25	27				CL					
30	32		Ì		CL				·	

Soil test boring results were variable across the Site. For the purposes of this report and the related development, the Site is divided into three general areas of similar subsurface profile. The three general areas are shown on drawing C1 in Attachment A and are generally described as follows:

Area 1: property extending to the south along the eastern bank of the Presumpscot River (River bank silty sand and gravel with variable depth to bedrock).

Soil samples from Area I generally consisted of silt and fine sand overlaying shallow bedrock. Borings in this area of the property include B104 to B108 and B110 to B112. Auger refusal on apparent bedrock was encountered on this portion of the Site at depths ranging from 1.2 to 6.0 feet bgs. Rock core specimens were obtained from two borings (B104 and B105) in this area of the property.

Area 2: northeastern corner of the property (upland silt over shallow bedrock)

Soil samples from Area 2 generally consisted of olive silt overlaying shallow bedrock. Borings in this area of the Site include B102 and B109 and auger refusal on apparent bedrock was encountered at depths of 7.3 and 7.5 feet bgs, respectively.

Area 3: the central and western portion of the property (lowlands alluvial plain with deep organics and clay).

Soil samples from Area 3 generally consisted of predominantly fine to coarse sand and fine to coarse gravel with trace to some silt. This granular soil stratum often contained concrete, coal ash, and bricks. In borings B113, B114, and B115, these granular soils overlay organic sands and silts with possible river (fluvial) debris, with areas of buried wood and leaves. This organic layer was observed in soil samples from depths of approximately 9 to 18 feet bgs. Underlying the organic soils in this area of the Site was generally a layer of gray to blue gray silty clay and

silt deposits. Auger refusal on apparent bedrock was encountered at depths ranging from 17 to 32 feet bgs.

#### Rock Core Sampling Results

Two rock core samples were collected in borings B104 and B105 from approximately 3 to 8 feet bgs. The recovered rock core samples were comprised of schist bedrock. The dark gray schist was slightly weathered, but foliated, splitting or cleaving readily. The rock core recovery ratio was near 100 percent for both samples.

A rock quality designation (RQD) was calculated for the retrieved bedrock core specimens. The RQD is used to assess the structural integrity of a rock mass and is defined as the cumulative length of rock core pieces longer than 10 centimeters (cm), divided by the total length of the core run. Based upon the bedrock cores obtained in B104 and B105, the RQD values are 68.3 and 73.3 percent, respectively.

#### Ground Water

Soil samples were generally moist at all depths. Ground water was neither encountered during drilling nor observed after drilling in any boring in Areas 1 and 2 of the Site. In Area 3 of the Site, groundwater was encountered at depths of 8 to 11 feet bgs in all test boring locations.

#### Laboratory Test Results

Results of laboratory testing are summarized below, with supporting laboratory results included as Attachment C.

Table 2: Summary of Soils Laboratory Results

	Sample/Depth							
	B101, S4 6–8 ft.	B102, S3 4–6 ft.	B103, S5 8-10 ft.	B105, S2 2-4 ft.	B113, S2 2-4 ft.	B114, S9 25–27 ft.	B115, S6 10-12 ft.	B117, S2 2-4 ft.
Gravel (%)	. <del>-</del> -		39.5	<b>.</b>	39.1		6.4	32.4
Sand (%)			40.8	÷-	54.2		54.7	42.1
Silt/Clay (%)			19.7		6.7		38.9	25.5
Moisture (%)	27.2	26,2	12.5	24.7	13.3	38.7	52.9	6.1
Organic (%)	**			:==	=-		5.8	++.
Liquid Limit	38	20		23		22		
Plastic Limit	22	7.7	5.5°	**	**	20		<b>4</b> , <b>-</b> .
USCS	CL	ML	GM-SM	ML	GW-SW	CL	SM	SM

Table 3: Summary of Soils Consolidation and C-U Triaxia! Test Results

Depth	Preconsolidation Pressure (P <sub>c</sub> )	Compression Index (C <sub>5</sub> )	Recompression Index (C <sub>r</sub> )	Initial Void Ratio (e <sub>o</sub> )	Undrained Shear Strength (Sa)	Coefficient of Consolidation (C <sub>v</sub> )
B114, 23-25 ft.	3,600 psf	0.2907	0.0448	0.90	930 psf	6.0 x 10 <sup>-3</sup> in <sup>2</sup> /sec

#### CONCLUSIONS AND RECOMMENDATIONS

The geotechnical engineer interpreted subsurface conditions with respect to the proposed construction on the basis of field exploration, laboratory analysis, and visual classification of soil samples. Design parameters and construction recommendations are provided below according to an analysis of subsurface conditions disclosed by this investigation and accepted geotechnical engineering principles.

In general, the Site is considered suitable for the proposed construction. In Areas 1 and 2 of the Site, native granular or silt soils and underlying bedrock are expected to provide an adequate bearing stratum for shallow foundations and the assumed design loads. However, due to proposed significant grade increases and existing subsurface conditions, Area 3 of the Site is considered unsuitable for foundations bearing on conventional spread footings due to compressibility of the underlying silty clay and organics under the proposed fill and building loads. Significant settlement of the existing underlying organic soils and relatively deep compressible clay soils are anticipated due to the depth and area of fill necessary to chieve final site grades. Although primary consolidation settlements are expected to dissipate within a clatively short period of time after placement of the fill, long-term settlements due to the presence of organics and secondary compression of the deep clays are expected to continue for a long period of time after construction. Due to the relatively deep clay deposits and high embankments, site utilities in Area 3 should not be installed until primary consolidation settlements are significantly dissipated.

#### Subsurface Conditions

In Areas 1 and 2 of the site, native overburden soils generally consist of fluvial silty sand (SM) and silt (ML) deposits overlying shallow bedrock. The relative density of soil samples ranged from loose to firm (medium-dense). Native overburden soils in these areas are considered of moderate strength and low compressibility. Depths to bedrock varied from 1.2 to 6.0 feet bgs in Area 1 and 7.3 to 7.5 feet bgs in Area 2. Based on our interpretation of the recovered rock core samples, the native bedrock appears to be foliated schist and is moderately weathered, hard, and massive. Based upon the shallow depths of bedrock it is anticipated that bedrock excavation will be required in those portions of the Site.

In Area 3, overburden soils generally consisted of very loose to loose granular fill soils (SM, GM-SM) over a layer of sandy soils containing wood timbers, wood chips, leaves, and organics to depths of 13 to 18 feet bgs. These deposits overlay soft native Presumpscot silty clay deposits to depths of 18 to 33 feet bgs. The organic fill and soft clay soils are considered to be of low to moderate strength and compressibility. Permanent ground water levels are anticipated to be well below the proposed excavation levels for building foundations and utilities on site. However, the proposed retaining wall adjacent to the

on-site power plant will require foundations that extend below groundwater and the adjacent river and dewatering will be required for installation of foundations.

For the purposes of seismic design, the soil profile on the property is classified as Site Class B (Areas I and 2) or E (Area 3) according to Minimum Design Loads for Buildings and Other Structures (ASCE 7-02) published by American Society of Civil Engineers (ASCE).

#### Site Preparation

Site preparation should commence by re-locating underground utilities and demolishing all structures within the footprint of the proposed ensite construction. All existing underground utilities located beneath the proposed foundations should be relocated to outside building perimeters. Underground structures beneath the proposed buildings or pavements should be removed to at least 2 feet below proposed foundation and pavement subgrade levels, and 2 feet below finished grades in landscaped areas. The basement area of the existing building should be filled to subgrade level. The surficial soils should then be stripped of all pavements, topsoil, and organics within the proposed building and pavements.

After clearing and stripping the site, subgrades beneath the proposed buildings, pavements, and fill areas should be proof-rolled with several passes of a 15-ton vibratory roller traveling at slow speeds in each perpendicular direction. All weak and unstable subgrades observed by pumping and weaving during proof-rolling or resulting in depressions greater than one-half of an inch after several passes of the roller should be undercut a minimum of 12 inches and backfilled.

According to the schematic site plans, a relatively large volume of fill will be required to level site grades in beneath the proposed building, roads and parking areas in Area 3 of the property. Up to 20 feet of fill will be required to achieve the proposed site grades for the building and parking lot construction. Site grades throughout the property should be increased with imported Fill material as specified herein. Underground utilities and final pavements in Area 3 of the property should be installed outside the building perimeters only after final site grade elevations are established and settlements have substantially dissipated. Detailed requirements for placement of fill and backfill are provided in the following paragraphs.

In Area 3, primary consolidation of the underlying clay soils are estimated to occur over a period of approximately 3 to 5 months after construction of the fill. In order to accelerate the time to dissipate settlements beneath the fill, we recommend that the site be pre-loaded with additional fill. According to our analysis, a pre-loading program consisting of placement of an additional 5 to 7 feet of fill and installation of prefabricated vertical wick drains will accelerate the time to reach anticipated total settlement of the fill and enable construction of pavements and utilities to continue in normal fashion within approximately 1 to 2 months after placement of the pre-load. In order to achieve uniform settlement over the entire construction area, the additional pre-load fill should be placed over an area 10 feet larger in each direction, where possible, than the proposed final grades and sloped according to the recommendations provided herein.

We estimate a substantial amount of pre-load fill soil will be required in Area 3. However, the pre-load material should be reused in embankment and retaining wall fill areas in other portions of the Site, which will reduce the cost of the pre-loading program. It should be noted that due to the presence of significant deep subsurface organics, pre-loading is recommended for dissipating settlements beneath pavements,

embankments, and utilities and does not tender spread footings a viable foundation option in this area of the property.

Preloading will require a subgrade settlement monitoring program within the proposed construction area during and after construction of the fill and preload in order to determine the actual rate of settlement and projected time for settlements to dissipate. The program should be conducted under the supervision of a geotechnical engineer licensed in Maine.

#### Excavation and Dewatering

All excavations should be performed according to OSHA Standards (29 CFR 1926 Subpart P). Temporary un-braced excavations completely within the silty fine sand granular layers (OSHA Type C) should be cut no steeper than one and a half horizontal to one vertical (1.5H:1V or 34°) under dry conditions, to a maximum depth of 12 feet.

In Areas 1 and 2 of the Site, where bedrock may be encountered, the bedrock should be undercut a minimum of 12 inches below proposed retaining wall foundation or pad, pavements, bottom of utility, or building subgrade levels and backfilled with structural fill. Based on this investigation, we believe that bedrock encountered on the site will likely require either pre-drilling and splitting or blasting to loosen the bedrock. If blasting is selected as the preferred means of rock excavation, we recommend that a pre-blast survey of all structures and utilities within at least 100 yards of the blast site be conducted. Peak particle velocity of soils adjacent to critical structures and utilities should be monitored and limited to less than 1 inch per second throughout blasting. Blasting should be conducted by certified/licensed blasting firms with at least 10 years of experience demonstrating rock blasting in residential and commercial zones.

Joon encountering bedrock during excavation for footings, basement slabs, or utilities, the earthwork contractor should expose that portion of the bedrock surface that may require blasting. An independent surveyor should provide an elevation survey of the exposed rock surface and the Contractor, Owner, and Engineers should mutually agree upon the quantity of rock excavation prior to commencing with drilling and blasting operations.

Given the nature of shallow bedrock blasting techniques and the resulting conical blast radil, it is generally not feasible to produce a flat, level blasted subgrade with no quantities of overblasted materials. In order to prevent cost over runs and to provide a Contractor incentive for limiting quantities of overblast, we recommend that a pay limit line be set for each area of rock excavation, below which the Contractor is not entitled to additional compensation. The pay limit line should be fixed at 1.0 foot below proposed design subgrades. The lateral pay limit line should be fixed at 2 feet outside of foundations and utility pipelines.

Excavations adjacent to existing structures or property should be properly shored to prevent shifting and/or settlement of these structures or off-site grades. Underpinning existing foundations is recommended for any excavation that extends below and is within a horizontal distance equal to 1.5 times the cut below adjacent foundation subgrades. Shoring and underpinning, if required, should be designed by a professional engineer licensed in Maine.

Surface runoff should be directed away from excavations to minimize dewatering and to protect subgrades from becoming soft and unstable. Any water entering these excavations should be immediately

removed from foundation subgrades using sump and pump techniques. Excavation side slopes should be monitored for potential seepage and maintained accordingly.

#### **Foundations**

In Areas 1 and 2 of the Site, the soils at proposed foundation grades are considered to be generally of low compressibility and moderate strength, and therefore conventional shallow spread foundations are recommended for building column support. All foundations exposed to exterior or unheated spaces should be placed a minimum of 4.5 feet below the adjacent finished site grades or slabs to provide for adequate frost protection. All interior foundations surrounded by heated spaces should be placed a minimum of 2 feet below floor slabs to provide for adequate bearing capacity. Exposed foundation subgrades should be densified with several passes of a hand operated vibratory roller or heavy plate compactor. Any weak subgrades observed by pumping and weaving beneath the compactor should be undercut a minimum of 8 inches and backfilled with structural fill. Bedrock encountered within foundation subgrades should be undercut a minimum of 12 inches and backfield with structural fill to final footing grades. Final foundation subgrades should be free of all loose rock, soil, water, frost, or other deleterious materials.

Spread foundations supported on properly prepared subgrades may be proportioned for a maximum allowable net bearing pressure of 4,000 pounds per square foot (psf). They should have a minimum horizontal dimension of 3 feet, even if this results in a bearing pressure less than the maximum allowable. Continuous wall foundations should be at least 2 feet wide and otherwise proportioned for a maximum net allowable bearing pressure of 3,500 psf. Maximum total column foundation settlement is estimated to be 1 inch. Settlements should occur immediately after placement of each load increment. Maximum tifferential settlement is expected to be less than ½ inch.

In Area 3 of the Site, the underlying organic and silt soils are considered to be generally of low to moderate compressibility and strength. Immediate (short-term) settlements due to the placement of 15 to 20 feet of fill on the site are expected to be 3 to 5 inches. Based on our interpretation of subsurface conditions, additional long-term settlements caused by the fill placement and secondary compression of the underlying soils may result in intolerable settlements beneath shallow building foundations. Therefore, conventional shallow spread foundations are not recommended in Area 3.

Considering the subsurface conditions and feasible foundation alternatives, we believe the proposed buildings in Area 3 of the Site should be supported on deep foundations extending to a firm bearing stratum beneath the organic soils and clay layer. Deep foundations should extend to the underlying sound bedrock, which may range from approximately 15 to 30 feet below proposed foundations. Drilled piers would most likely require permanent casing to maintain stable excavations during installation and are not recommended due to their relatively high associated costs.

Economically feasible deep foundation options considered for this site are driven timber, pre-cast concrete and steel piles. Timber piles are considered to be the most economical for this site given the anticipated foundation loads, depth of suitable bearing stratum, and subsurface conditions. Accordingly, Oak recommends that the buildings in Area 3 be supported on timber piles driven to refusal on sound bedrock. Pre-drilling may be required to penetrate through subsurface obstructions if driving stresses exceed the recommended values.

On the basis of our analysis of subsurface conditions and the proposed construction, the following foundation design recommendations are provided:

L.	Pile Section:	Timber, ASTM D25
2.	Species:	Southern Pine
3.	Preservative Treatment:	AWPA C3
4.	Maximum Driving Stress:	3,000 psi
5.	Maximum Design Capacity:	15 Tons/pile
6.	Maximum Effective Driving Energy:	18 Kip-Ft./blow (Single-acting hammer)
7.	Maximum Vertical Batter	1H:10V
8.	Minimum Pile Spacing	2.5 x pile diameter

Piles should be designed and installed according to Standard Guidelines for the Design and Installation of Pile Foundations (ASCE 20-96) published by ASCE. For the purposes of bidding, construction documents should require a base bid pile length equal to 35 feet, and unit prices should be provided to adjust for the final in-place pile length. The final pile tip depth should be determined in the field by using an acceptable driving formula or through dynamic pile load testing methods according to ASTM D 4945 CASE) corresponding to the above allowable load capacity including a factor of safety equal to 2.0.

Totective pile tips should be used to prevent damage due to driving through fill, obstructions, or into bedrock.

#### Floor Slabs

In Areas 1 and 2 of the Site, floor slabs may be constructed over a Base Course material consisting of crushed gravel conforming Maine Department of Transportation (MaineDOT) Specification Item 703.10 and the gradation requirements as follows:

Sieve Size	Percent Passing by Weight			
2"	100			
1."	95-100			
3/4"	90–100			
No. 4	40-65			
No. 10	10-45			
No. 200	0-7.0			

The Base Course should be at least 6 inches in thickness and compacted to 95 percent of the optimum density as determined by ASTM D 1557. Floor slabs may be designed following procedures recommended by the Portland Cement Association (PCA) or American Concrete Institute (ACI) using

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300 pounds per cubic inch (pci) as the Westergaard modulus of subgrade reaction on top of the base course layer.

In Area 3 of the Site, due to anticipated long-term settlements we recommend that both the apartment floors and any garage floor be designed and constructed as elevated structural floors fully supported on foundation grade beams and timber piles as recommended above.

#### Pavements

With proper site preparation and drainage, the native subgrades should provide adequate strength to support the proposed traffic loading. Due to the potential for long term settlements rigid pavements are not recommended in Area 3. Additionally, bituminous wearing surfaces should not be applied until primary settlements beneath embankments have dissipated in Area 3. Pavements in entrances and drives should be designed according to the MaineDOT design procedures and utilizing the following soil parameters for flexible pavements:

Soil Subgrade Parameters:

Con Dudgiage Las Billeters.	
AASHTO Subgrade soils classification	A-1-b
ACE Frost Susceptibility Group	F2
CBR (SM)	20
Westergaard Subgrade Modulus, k	250 pci
Effective Resilient Modulus, MR	4,500 psi

A recommended typical pavement section for truck lanes and entrances is provided in the following table and is based on estimated traffic criteria, subgrade design parameters, and American Association of State Highway and Transportation Officials (AASHTO) design guidelines for flexible pavements. A reduced typical pavement section for areas subject to passenger vehicles only is also provided.

Table 4: Recommended Flexible Pavement Sections

Truck Lanes and Entrances						
Layer	Top	Binder	Base	Subbase		
Thickness (in.)	2	2	4	12		
MaineDOT Spec.	703.09, Type 12.5 mm	703.09, Type 19 mm	703.09, Type 19 mm	703.06, Type B		

	Passen	ger Vehicles Only	<i></i>	
Layer	Тор	Binder	Base	Subbase
Thickness (in.)	1.5	2.5	0	12
MaineDOT Spec.	703.09, Type 12.5 mm	703.09, Type 19 mm	703.09, Type 19 mm	703.06, Type B

#### Earth-Petaining Structures

Due to the depth of fill and cuts for the proposed site grades, construction of two retaining walls is required for the development. An approximately 800-foot long retaining wall is proposed for the eastern property boundary of the Site and a 60-foot long retaining wall is proposed to support soils at the embankment near the existing power plant on the Presumpscot River. As currently proposed, the 800-foot wall will range in height from approximately 12 to 3 feet and will support soils on the easterly abutting property. Based upon our subsurface investigations, portions of this wall will require bedrock cuts as great as 9 feet to achieve the required site grades.

Due to the close proximity of the power plant and Presumpscot River, it should be anticipated that the required retaining wall will require temporary sheeting and possibly underpinning of adjacent foundations during construction. Temporary cofferdams and dewatering systems should also be anticipated to build the retaining wall foundation in dry, stable conditions. Due to the height and assumed loading, we anticipate this wall will be designed as a reinforced-concrete cantilever wall supported on deep piles. However, additional subsurface exploration in the vicinity of the proposed wall and investigation of the adjacent foundations will be required to confirm these recommendations.

In general, foundation walls, loading docks, or earth-retaining structures should be designed to resist lateral pressures generated by soil backfill materials and any temporary or permanent surcharge loads. At-rest conditions should be assumed for the design of loading dock walls and other walls that are rigid and braced prior to backfilling. Walls that are free to deflect or rotate may be designed assuming active conditions.

The following parameters are based on Rankine's Lateral Earth Pressure Theory and may be utilized to compute the lateral earth pressures for rigid walls constructed with level backfill, whichever apply:

Coefficient of stord Forth Durantus	<u>Active</u> 0.27	At-Rest
Coefficient of Lateral Earth Pressure (Level Backfill)	0.27	0.43
Equivalent Fluid Weight, pounds per cubic foot (pcf)	32	54

For sliding and overturning stability, the following design parameters are recommended:

Unit weight of granular backfill	120 pcf
Coefficient of sliding friction, µ	0.50
Maximum foundation edge pressure	4.000 psf

The backfill should be adequately drained to minimize hydrostatic pressures behind the wall. For this purpose, a foundation drain is recommended. The drain should consist of a nominal 4-inch-diameter perforated pipe installed behind the wall and at the foundation bearing grade level. The pipe should be embedded in at least 6 inches of clean gravel (less than 2% passing No. 200 sieve) material that is also placed directly behind the wall in a minimum 12-inch-wide trench. The clean gravel should be wrapped in a synthetic filter fabric such as Mirafi 140N or equal to prevent clogging. Additionally, an impervious cover should be placed at the ground surface to minimize infiltration of surface runoff.

#### <u>Underground Utilities/Stormwater Infiltration Design</u>

The subsurface native granular soils are considered to be slightly corrosive to gray or ducille cast-iron pipe. However, the existing fill soils may contain corrosive materials, and therefore, we recommend that utilities placed within the existing fill soils be adequately protected from corrosion. Utility trenches should be properly excavated and shored according to the recommendations provided above. Utility trenches should be backfilled according to the recommendations for fill and backfill provided below. Construction of utilities in Area 3 of the Site should be completed only after settlements due to fill have substantially dissipated.

Based on our understanding of project program requirements, the proposed stormwater collection system will not require subsurface infiltration, and therefore soil permeability design parameters are not required.

#### Fill and Backfill

The following materials and compaction effort are recommended for use in areas of fill and backfill:

Type	Size	% Passing	Compaction
Structural Fill MaineDOT Spec. 703.06, Type E	3" ¼" No. 40 No. 200	100 25–100 0–50 0–7.0	95% ASTM D 1557 8-inch lifts
Embankment Fill MaineDOT Spec. 703.20	6" ¼" No. 200	100 0—70 0—10	92% ASTM D 1557 8-inch lifts
General Fill	8"	100	90% ASTM D 1557 12-inch lifts

Due to the fine grain content of existing soils and oversized particles, the existing excavated material is considered unsuitable for Structural Fill. Imported Structural Fill should be placed beneath and adjacent to all structures and utilities. Embankment fill should be placed beneath pavements.

On-site soils and materials from site preparation and demolition operations, such as concrete, brick, masonry, or blasted rock may be crushed, reprocessed, or mixed with off-site soils to create suitable Embankment and General fill materials, provided that the resulting material satisfies requirements specified herein. General Fill should be used in landscaped areas only. All permanent slopes steeper than 3H:1V (18° from horizontal) should be protected with suitable erosion-control blankets. Any permanent slopes steeper than 2H:1V (27°) should be protected with stone rip-rap. Stone rip rap should conform with MaineDOT Specification 703.26 for Plain RipRap, consisting of either field stone or rough, unhewn quarry stone with at least 50 percent of the stone by volume exceeding fifty pounds in weight. In highly erodible environments such as river banks, the stone rip-rap should be designed according to U.S. Army Corps river bank protection design standards and placed over geotextile filtration fabric similar to Mirafi 140N. River banks should not exceed 2H:1V (27°) slopes. Permanent slopes in dry land and where seepage is not a concern should not be steeper than 1.5H:1V (34°). Grades should gently slope away

Mr. Lee D. Allen, P.E. Northeast Civil Solutions

from building foundations and provide the minimum soil cover for protection of foundation subgrades from frost penetration.

A two-dimensional global slope stability analysis was performed for the Site from selected interpreted soil profiles that included proposed site grades and fills areas overlying the existing fill, organic, and clay subsoil layers. These analyses included both Bishop Modified and Ordinary Method of Slices calculations. Based on these calculations, the proposed embankments and fills have suitable factors of safety from rotational slope failure of the underlying clay and organic fills.

#### Construction Quality Control

The geotechnical engineer should be provided the opportunity to review the final design and specifications to ensure recommendations presented herein have been properly interpreted and applied. It is recommended that all backfill and compaction be inspected and tested by a qualified firm to ascertain that the proper materials are placed and adequately compacted. The geotechnical engineer should review all soil inspection and testing reports and monitor site development and foundation subgrade preparation to determine the necessity for additional cut and backfill beneath building subgrades. The geotechnical engineer should also review the contractor's subgrade settlement survey and monitoring program during the placement of fill and, on the basis of this survey, determine the time-rate of settlement and recommended sequence for installation of structures, utilities, and pavements in Area 3.

#### CLOSURE

This report has been prepared to assist the Site and structural engineers in the design and construction of foundations, pavements, and Site structures related to the proposed development at 7 to 13 Depot Street, South Windham, Maine. The recommendations have been presented on the basis of an understanding of the project as described herein, and through the application of generally accepted foundation engineering practices. No other warranties, expressed or implied, are made.

Mr. Les D. Allen, P.E. Northeast Civil Solutions

We have enjoyed working with you on this phase of your project. Further investigations recommended in this report may be provided upon your request and written authorization. Should you have any questions regarding this report or require additional assistance, please do not hesitate to call.

Sincerely,

OAK ENGINEERS, LLC.

Wendell A. Shedd, III

Senior Geotechnical Engineer

PAUL D. DESTEFANO 19025 20 19025 20 1575 20 1711

Paul D. DeStefano, Ph.D., P.E. Director, Geotechnical and Structural Services

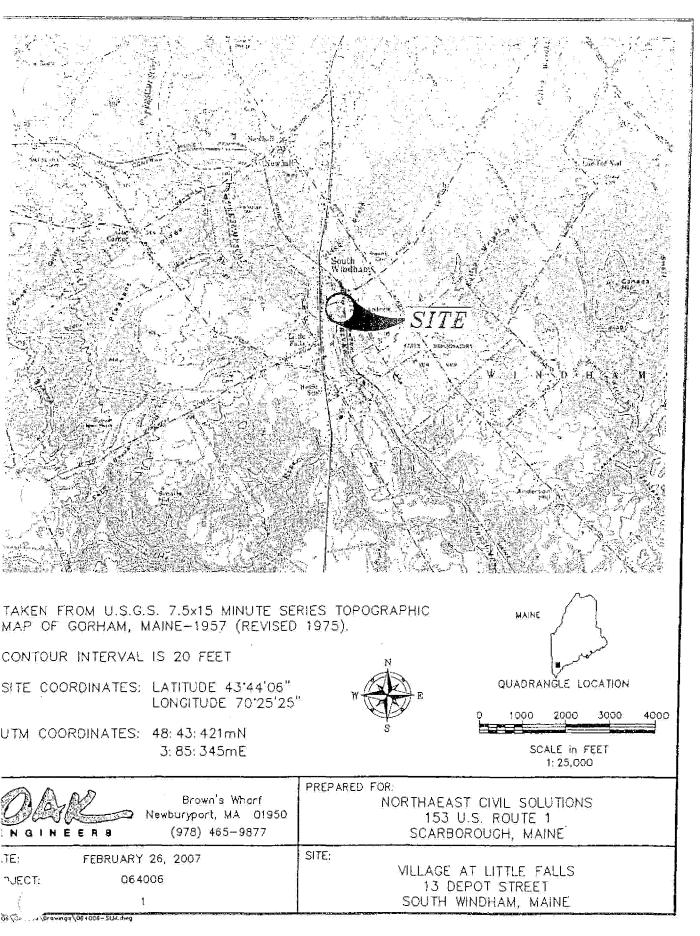
WAS/PDD(ss Attachments

ce: Steve Etzel, Questor, Inc.

#### ATTACHMENT A

Figures

Geotechnical Investigation Village at Little Falls, LLC 7 to 13 Depot Street South Windham, Maine



### ATTACHMENT B

Soil Boring and Test Pit Logs

Geotechnical Investigation Village at Little Falls, LLC 7 to 13 Depot Street South Windham, Maine

Oak Engineers, LLC Project 064006



BORING LOG:				1101
Ground Elevation:	See Plan	Total Depth:	23 Faat	Logged By: WAB
GW sncountered:	Faet	Boring Diameter:	8 Inchas	Date Onited: 1/24/07 to 1/24/07
GW @ completion:	N.M. Feet	Wiell Säckup:	c	Briller: Modharn Test Boring

		The second contract of						1	
DEPTH	DESCRIPTION	REMARKS	SAMPLE	SAMPLE NUMBER	BLOW COUNTS (per 6 (nches)	PENETRATION/ RECOVERY (IL.)	USCS SYMBOL	z	WELL
	Black to Dark Brown f-c SAND, little Silt, trace Gravel	dry to moist		SS-1	8.3 3.3	24/12	SM	6	
	(toose)	maist	Š	\$\$-2	2,3 3,3	24/16	SM	6	
5-	Olive CLAY, some silt, trace fine Sand, slightly plastic to plastic	moist - PP = 2.5 ts/	$\bigotimes$	SS-3	2,2 3,3	24/20	CL	4	
		maist - w = 27.2%	$\bigotimes$	SS-4	4,3° 3,5	24/24	CL	6	
		moist	X	<b>S</b> S-5	3,4 4,4	24/24	CL	8	
		moist to wel		SS-6	4,4 5,5	24/24	Cr	9	
					-				
—15— — —		wet	X	SS-7	3,3 3,3	24/24	CL	6	
- 1		;				,			
_	(stiff to medium)	wet	<b>X</b>	\$3-8	4,8 12,18	24/24	CL	20	
 25	Auger Refusal - €nd of Boring @ 23'								
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- Drilling Method: Track mounted Diedrich D-50 with 2-1/4" i.d. Hollow Stem Auger (HSA)
- Soil Sampling: 2-inch Split Spoon Sampler driven with 140 lb. hammer falling 30 inches (Auto-Hammer).

#### CLIENT:

Northeast Civil Solutions

## SITE:

Village at Little Falls 7 to 13 Depot Street South Windham, Maine

Project No.:

064006 | Page:



BORING LO	G:	8102						
Ground Elevation:	Sae Plan	Tatal Depth:		Logged By: WAS				
GW ancountered:	N.O. Feet	Boring Diameter:	å inches	Date Crilled: 1/24/07 to 1/24/07				
GW @ completion:	M.M. Fae:	1	מ	Driller: Northern Test Boring				
			NI S	2 0 0 E				

DEPTIN	DESCRIPTION	REMARKS	SAMPLE	SAMPLE	BLOW COUNT (per 6 inches)	PENETRATIO RECOVERY (I	USCS SYMBOL	z	WELL
	Gray to Brown f-c SANO, some Gravel, little Silt (loose)	dry to maist		SS-1	24,14 9,3	24/15	SM	23	
	Olive SILT, some Clay, trace fine Sand, slightly plastic to plastic	moist	$\overset{\times}{\otimes}$	SS-2	2,3 2,3	24/17	NIL	5	
<del>-</del> 5-		moist - w = 26.2%		\$\$-3	2,3 5,5	24/20	ML	8	
F =	(stiff to medium)	moist - weathered shale pieces in spoon	$\boxtimes$	SS-4	5,10 50/3"	15/10	ML.	>100	
	Auger and Split Spoon Refusal - End of Boring @ 7.3'						<u>.</u>		
-10-									
15		·							
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#### AOTES:

- Drilling Method: Track mounted Diedrich D-50 with 2-1/4" i.d. Hollow Slem Auger (HSA)
- 2. Soil Sampling: 2-inch Split Spoon Sampler driven with 140 lb. hammer falling 30 inches (Auto-Hammer).

# CLIENT:

Northeast Civil Solutions

SITE:

Village at Little Falls 7 to 13 Depot Street South Windham, Maine

Project No.:

064006 Page:



BORING LO	G:	<b>B</b> 103							
Ground Staystion:	Sea Plan	Total Cepas	12.5 ∓sac	Logged By: WAS					
GW encountered:	fil Feet	Boring Diameter:	81nches	Date Drilled: 1/24/07 to 1/24/07					
GM @ completion:	N.M. Feet	Wait Säckup:	0	Critien: Northern Test Boring					

					- 4.				
DEPTH	DESCRIPTION	REMARKS	SAMPLE	SAMPLE NUMBER	BLOW COUNTS (per Binches)	PENETRATION/ RECOVERY (M.)	USCS SYMBOL	2	WELL
<del> </del>	Topsoil Olive Brown SILT and fine SAND	dry to moist	X	SS-1	4,4 50/4ª	16/6	S.M- ML	>100	
		moist - kerosene odor	XX	\$5-2	4,7 15,17	24/7	SM- ML	22	
5	becoming Oark Brown to Black	moist -wood pieces	$\bigotimes$	SS-3	4,5 6,9	24/8	SM- ML	11	
	becoming Olive Brown with trace fine Gravel (firm)	maist	$\otimes$	SS-4	7,9 5,4	24/7	SM- ML	14	
	Light Brown f-m SAND and Gravel, little Silt	moist - coal pieces - w = 12.5%	$\bigotimes$	SS-5	4,5 3,3	24/8	GM- SM	8	
		wet	$\bigotimes$	SS-6	2,2 3,1	24/12	GM- SM	5	
-	(loose) Auger Refusal - End of Boring @ 12.5'	- 							
-15-									į
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					1				
. 7						1			
-25-									
-30-									
		and the second s							
-35									

- 1. Drilling Method: Track mounted Diedrich D-50 with 2-1/4" i.d. Hollow Stem Auger (HSA)
- Soil Sampling: 2-inch Split Spoon Sampler driven with 140 lb. hammer falling 30 inches (Auto-Hammer).

#### CLIENT:

Northeast Civil Solutions

#### SITE:

Village at Little Falls 7 to 13 Depot Street South Windham, Maine

Project No.:

064006

Page: 1



BORING LO	B104						
Ground Elevation:	Sas Plan	Total Cacih:	9:Fast	Logged By VVAS			
GW ancountared:	N.Q. Feat	Boring Diameter.	8 inches	Date Crilled: 1/24/07 to 1/24/07			
GW @ completion:	N.M. Feet	Wall Stickuo:	0	Criller: Northern Fest Soring			

Land to the same									
HLATQ	DESCRIPTION	REMARKS	SAMPLE		BLOW COUNTS (per 6 inches)	PENGTRATION/ RECOVERY (n.)	USCS SYMBOL	Z	WELL
	Black f-m SAND, some Silt (loose)	dry to moist - brick and coal ash		SS-1	8,7 7,6	24/21	SM	14	
	Olive SILT and fine SAND, trace Gravel (firm) Auger Refusal on weathered	maist - shaley rock pieces in spoon		SS-2	8,7 7,6 4,5 18,50/ 4"	24/10	ML	23	
5-	rock	RQD = 68.3%		RC-1	-	60/60			
1 - 1 - 10-	End of Boring @ 9'								
				-	-	,			
-  15									
								-	
water a	,	,						3	
25 									
- 35-									Ì

- 1. Drilling Method: Track mounted Diedrich D-50 with 2-1/4" i.d. Hollow Stem Auger (HSA)
- 2. Soil Sampling: 2-inch Split Spoon Sampler driven with 140 lb. hammer falling 30 inches (Auto-Hammer).

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BORINGLO	B105						
Ground Eleyadon:	See Flan	Total Ceath:	9 Faat	Lagged By: WAS			
GW andountered:	N.O. Feet	Boring Diemeter:	6 inches	Case Drilled: 1/24/07 to 1/24/07			
GW @ completion:	N.M. Feet	Wall Bilckup:	ŋ	Driller: Northern Test Boring			

DEPTH	DESCRIPTION	REMARKS	SAMPLE	SAMPLE NUMBER	BLOW COUNTS (per 8 inches)	PENETRATION/ RECOVERY (in.)	USCS SYMBOL	. 2	WELL
_	Dark Gray to Black Fm SAND, some Sill	dry to maist - brick pieces		\$S-1	22,17 7,7	24/22	SM	24	
- - -5-	(loose) Olive SILT, trace fine SANO, trace Gravel (firm) Auger Refusal on weathered rock	moist - w = 24.7%		SS-2	5,7 9, 50/3*	21/17	ML	16	
- ; 		RQD = 73.3%		RC-1		60/60			
- -10	End of Boring @ 9'								
-15									
							:		
	•			:		The state of the s			
				·		The state of the s			
-25-							-		
-30-									
					A the second second second second second	-			
-35- - -						er by particular and a design			
NOTE		Loui	ENT					1	

- 1. Onlying Method: Track mounted Diedrich D-50 with 2-1/4" i.d. Hollow Stem Auger (HSA)

2. Soil Sampling: 2-inch Split Spoon Sampler driven with 140 lb. hammer falling 30 inches (Auto-Hammer).

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BORINGLO	G:		8	106	W 11 2	
Ground Elevation:	Saa Plan	Total Capilit	5.å Faat	Lagged 97:	WAS	
GW encountered:	M.O. Fael	Boring Clametar	5 Inches	Cata Criffact	1/24/07 to	1/24/C7
GW @ completions	M.W. Feat	Well Stickus:	<u> </u>	Criller: Nor	thern Tes⊹ Bo	ring.

1,	G 1: N ∈ 2 स स	GW @ completion	M.M. Feet Well Stickus	:: 	C_			ngrasar	n jes∢≃	201-15 <b>9</b>
рЕРТІІ	DESCRIPTIO		REMARKS	SAMPLE	SAMPLE NUMBFR	BLOW COUNTS (per 8 Inclus)	PENETRATION/ RECOVERY (in.)	USCS SYMBOL	Z	WELL
	Dark Gray fine SANO, som Olive SILT, trace fine Sand	e Silt , non- to	dry to maist - ash	X	\$S-1	3,4 7,8	24/21	NL	ज् १	
	slightly plastic		moist		SS-2	3,5 7,9 9,11	24/20	ML	12	
- 5	(firm)		moist - rock pieces in sample	$\bigotimes$	\$\$.3	14, 50/2"	20/20	ML.	25	- Address of the second
	Auger and Split Spoon Refi Boring @ 5,8'	usal - End of								
10										
						<i>y</i>				
- -15		Applying a security								
						ļ.	- Anna G			:
, 1		, -				ł:			. 1	
. ]		,								
. <u> </u>										
-25										
		,							,	
-30-										
		As an annual property of the state of the st								
-35										
				1_	<u> </u>		1	_ ,		

1. Drilling Method: Track mounted Diedrich D-50 with 2-1/4" i.d.

Hollow Stem Auger (HSA)

2. Soil Sampling: 2-inch Split Spoon Sampler driven with 140 lb. hammer falling 30 inches (Auto-Hammer).

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		BORING LC	)G;		B107						
	121	Ground Elevation:	See Plan	Total Depting	2.8 Feet	Loggad By: WVA3					
A S	A STATE OF THE STA	GW encountered:	N.O. Feet	Boring Diameter	: 6 Inchas	Date Dollad: 1/24/07		(c 1/2×/07			
· · · · · ·	8 1 N & & M Y	GWI @ completion:	N.M. Faet	vVail Stickup:	<u>e</u>	*	Boring				
DEPTH	DESCRIPTIO		REMAR	SAMPLE	SAMPLE NUMBER BLOW COUNTS (ver 6 inches)	PENETRATION/ RECOVERY (in.)	uscs symbol,	WELL			
	Olive SILT and fine SAND, Gravel	trace fine	dry to mai	si X	9.7	1 2 110 2	ML 19				
	(firm)		moist		SS-2 12.14 50/3	9/7	ML >100				
-10-	Auger and Split Spoon Refu Boring @ 2.8'	isal - End of			53						
30-			,								
		,									
Hollo Soil	i: ng Method: Track mounted ow Stem Auger (HSA) Sampling: 2-inch Split Spoo mer falling 30 inches (Auto-	on Sampler driven w		SITE: Village 7 to 13	ast Civil S at Little F Depot St	alls reet	3				
¥				South	South Windham, Maine						

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BORING LO		${\mathbb B}$	3108	
Ground Elevation:	See Plan	Taxel Depth:	1.2 Fset	Logged By: WAS
GW encountered:	N.C. Feet	Boring Diameter:	8 inch±s	Date Diffled: 1/24/07 to 1/24/07
GW @ completion:	N.M. Fast	Wall Brickups	0	Griller: No/charn Test Bering
		1 .		

HLEEL	DESCRIPTION	REMARKS	SAMPLE SAMPLE NUMBER	BLOW COUNTS (per 6 inches)	PENETRATION	USCS SYMBOL	Z	WELL
		dry to moist - rock fragments	SS-1	3,7	14/14	NiL	>100	
0EB	Light Brown SILT and fine SAND  Auger and Split Spoon Refusal - End of Boring @ 1.2'	dry to moist - rock fragments		MOTH IN TO STORY OF THE PROPERTY OF THE PROPER	PENET 4	S SOSU NECS S	1	WELL
-25-							e de se de s	
30-					A to a feet of the second of t		e Print to the section of the sectio	
35-								The state of the s
		OUE						

	1.000	_	-	-	
N	11		-		æ.

- 1. Drilling Method: Track mounted Diedrich D-50 with 2-1/4" i.d. Hollow Stem Auger (HSA)
- 2. Soil Sampling: 2-inch Split Spoon Sampler driven with 140 lb. hammer falling 30 inches (Auto-Hammer).

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BORING LO	B109							
Ground Elevation:	See Plan	Total Decin:	7.5 Feet	Logged By:	WAS			
GW encountered:	M.O. Feet	Boring Ciameter:	6 inches	Date Orillad:	1/24/07 to 1/24/07			
GW @ completion:	N.M. Feet	Well Stickup:	D.	Driller: Nor	thern Test Boring			

	44 224					<u> </u>				
DEPTH	DESCRIPTION	REMARKS	SAMPLE	SAMPLE NUMBER	(per 6 inchez)	PENETRATION/ RECOVERY (in.)	USCS SYMBOL	Z	WELL	
	Brown f-c SAND, some Gravel, trace Silt (firm) Olive SiLT, some Clay, trace line Sand, slightly plastic	dry to moist	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	SS-1	13,15 6,5	24/22	SW	21		
5 1 1 1 5 1 1 1 5 1 1 1 1 5 1 1 1 1 1 1	(medium) Auger and Split Spoon Refusal - End of Boring @ 7.5'	moist		55-2	1,2	24/24	ML	6		
35		CLIE	JT-		J					
NOTE	ζ,		1 1 ;							ı

Ν	O.	TΕ	S

- Drilling Method: Track mounted Diedrich D-50 with 2-1/4" i.d. Hollow Stem Auger (HSA)
- 2. Soil Sampling: 2-inch Split Spoon Sampler driven with 140 lb. hammer falling 30 inches (Auto-Hammer).

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BORINGLO	·G:	<b>8</b> 110						
Ground Sevation:	Sae Alan	Total Depth:	5.9 Feet	Logged By: WAS				
GW encountered:	N.O. Fest	Boring Diameter:	& Inchas	Data Orillad: 1/24/07 to 1/24/97				
GW @ completion:	N.M. Fast	Weil Stickup:	C	Onlian Northern Test Boding				

DEPTH	DESCRIPTION	REMARKS	SAMPLE	SAMPLE NUMBER	BLOW COURTS (per 6 tsches)	PENEITIATION/ RECOVERY (h.)	USCS SYMPOR	N	WELL
	Dark Brown SILT and fine SAND	dry to moist		SS-1	3,2 3,5	24/12	ML	5	
	with trace Gravel/Rock pieces	moist		SS-2	2,4 19,9 10,7	24/4	ML	23	
_ 5_	(loose to firm)	moist - weathered schist pieces		SS-3	12, 50/5"	23/20	ML	19	
-15	Auger and Split Spoon Refusal - End of Boring @ 5.9				50/5				
-30		:			A				
35								Arrament Company	
	,								

١	1	Э	T	Ε	S:	

- 1. Orilling Method: Track mounted Diedrich D-50 with 2-1/4" i.d. Hollow Stem Auger (HSA)
- 2. Soil Sampling: 2-Inch Split Spoon Sampler driven with 140 lb. hammer falling 30 inches (Auto-Hammer).

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BORING LO	G:	B111						
Ground Elevation:	See Plan	Total Cegur:	5.7 Fest	Lagged By: WAS				
GW ancountared:	M.O. Fast	Boring Diameter	ā inches	Cata Grillad: 1/24/07 to 1/24/07				
GW @ completion:	N.M. Fast	Wall Slickup:	٥	Dtillen Northern Tast Baring				

*	To a to the source of	10.11 1.11.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1			i			Stat Statement	-31.19
DEPTH	DESCRIPTION	REMARKS	SAMPLE	SAMPLE NUMBER	BLOW COUNTS (per 6 inches)	PEMETRATION/ PRECOVERY (In.)	USCS SYMBOL	Z	WELL
_	Brown SAND, some Siit	dry to moist - concrete pieces		\$8-1	7,6 5,4	24/14	1	11	
		moist - concrete pieces	X	SS-2	8,6 4,5 5,7	24/12	SM	10	
[-5-]	(loose to firm)	moist - concrete and possible ash pieces	$\boxtimes$	SS-3	5,7 11, 50/2"	20/8	SM	18	
	(loose to firm) Auger and Split Spoon Refusal - End of Boring @ 5.7'								
<u>-10-</u>									
_									
15									
_					:				
- 1									
- +									
	·								
25-			-						- Annual Control
- 1									
-30-	٠.						2		Mar my co y de mandre de la constitución de la cons
-30	·	- Promoting and American							
		Çiyan da karana							
-35-	•	-			A STATE OF THE STA				
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- Drilling Method: Track mounted Diedrich D-50 with 2-1/4" i.d. Hollow Stem Auger (HSA)
- 2. Soil Sampling: 2-inch Split Spoon Sampler driven with 140 lb. hammer falling 30 inches (Auto-Hammer).

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BORING LC	G:	B112						
Ground Elevation:	Sas Flan	Total Dagin:	3,5 Faet	Logged By: VVAS				
GW accountered:	M.O. Paes	3 odng Diameter:	8 Inches	Care Brilled: 1/24/07 to 1/24/07				
GW @ completion:	M.M. Faat	Wall Stickup:	C	Briller: Northern Test Sorting				

	Fran C Spinking	arc 1077 335 1738 383749	: 	· ·		et in Ore	1191919	i i reci	2001-1009
MLG90	DESCRIPTION	REMARKS	SAMPLE	SAMPLE	BLOW COUNTS (per 6 inches)	PENETRATION/ RECOVERY (ht.)	USCS SYMBOX	Z	WELL
_	Brown f-c SAND, trace to little Sill	wet - concrete pieces	77.01	SS-1	12,14 9, 50/3"	21/10	SM	23	
	(firm) Auger Refusal - End of Boring @ 3.5'								
- 5-	Auger Refusal - End of Bonng @ 1.5								
				- Pietro					
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10-									
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- 1. Drilling Method: Track mounted Diedrich D-50 with 2-1/4" i.d. Hollow Stem Auger (HSA)
- Soil Sampling: 2-inch Split Spoon Sampler driven with 140 lb. hammer falling 30 inches (Auto-Hammer).

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BORINGLO	G:		jer Jes	3113		•
Ground Elevation:	See Plan	Total Depth;	15.25 Feet	Logged By:	WAS	-
GW encountered:	11 Feet	Boring Diameter	: dinches	Date Orllied:	1/24/C7 to 1/	2-707
GW @ coreal stics:	N: AL ≅ sat	Well Steken	a	Denlac Mer	doern Taat Audi	ca

	- rate of courties	don, ram ram removed						1-1 / 5531	32
UEPTH	DESCRIPTION	REMARKS	SAMPI.E	SAMPLE NUMBER	BLOW COUNTS (per 6 inches)	PENETRATION/ RECOVERY (In.)	USES SYMBOL	z	WELL
_	Rust Brown (-c SANDand (-c GRAVEL) Iraca Silt	dry to moist		SS-1	9,10 10,9	24/20	GM- SM	19	
	becoming Rust Red	moist - red oxide and ash - w = 13.3%		SS-2	10,9 4,3	24/10	GM- SM	13	
- 5-		moist - red oxide and ash		SS-3	3,1 1,1	24/7	GM- SM	2.	
	(firm to very loose)	moist - coal ash pieces		SS-4	2,1 1,2	24/9	GM- SM	2	
-10	Gray fine SAND, some Silt, trace to little organics	moist - ash		<b>SS-</b> 5	3,1 1,2	24/12	SM	2	
	becoming fine to medium SAND, trace to little Sitt	.weţ	$\bigotimes$	\$\$-6	2,2 2,3	24/19	SM	4	
	(very loose) Gray SILT, some f-m Sand			1					
-15-	(firm to dense)  Auger and Split Spoon Refusal - End of	saturated - rock pieces in sample	X	SS-7	8,14 50/3"	21715	ML	>100	
	Boring @ 16,25			:					
		•	The forms are						
-25									
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-30-						- Partie	reduced of the state.		
						and the second second	,		
-35-				Live and the second					
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				1					

1. Dritting Method: Track mounted Diedrich D-50 with 2-1/4" i.d.

Hollow Stem Auger (HSA)

2. Soil Sampling: 2-inch Split Spoon Sampler driven with 140 lb, hammer falling 30 inches (Aulo-Hammer).

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BORING LO	G:	B114							
Ground Sievation:	Saa Plan	Total Depin:	33 Fee:	Legged By:	SK:W				
GW encountered:	11 Faet	Boring Diameter:	& Inches	Date Orlled:	1/24/07 to	2 1.24/07			
G'Ili @ completion	N M Fast	Wall Signar	n	College Noc	Part Tage	Breine			

DEPTH	DESCRIPTION	REMARKS	SAMPLE	SAMPLE NUMBER	BLOW COLINITS (per 6 inches)	PENETRATION/ RECOVERY (in.)	USCS SYMBOL	N	WELL
	Olive Brown f-c SAND, some Silt (firm)	dry to moist		\$\$-1	5,12 11,7	24/14	SM	23	
ΕŦ	Black to Dark Brown f-c SAND, trace to little Silt	moist	双	\$S-2	5,5 7,5	24/16	SM	12	
5		moist		\$8-3	2,2 2,2	24/12	SM	4	
	(loose) Clive Brown f-m SAND, some Silt	moist - wood pieces		\$5-4	2.2 2,3	24/12	SM	4	
-10-		moist - wood chips and leaves		SS-5	1,1 2,2	24/16	SM	3	
		wet - wood pleces/chips	$\bigotimes$	SS-6	3.4 4,3	24/19	SM	8	
15	(loose) Blue Gray CLAY, trace Silt, frace fine Sand	saturated - Jarge wood pieces	×××	\$S-7	3,3 3,3	24/11	SM	6	
		wet to saturated	XX	SS-8	1,2	24/20	CL	4	
- 25		Su = 930 psf, w = 43.0%	X	ST-1			CL		
		wet		SS-9	1,1 1,1	24/24	CL	2	
-30	(soft) Auger Refusal - End of Boring @ 33'	wel		ss-10	1,1	24/24	CL	42	
-35-		CLIE	NT	:					

ĸ'n.	O	T	_	C	
¥	ン	4.	-	√>	i.

- 1. Drilling Method: Track mounted Diedrich D-50 with 2-1/4" i.d. Hollow Stem Auger (HSA).
- Soll Sampling: 2-inch Split Spoon Sampler driven with 140 lb. hammer falling 30 inches (Auto-Hammer).

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BORING LO	G:		Đ	1115		
Ground Elevation:	See Plan	Total Georh:	20.8 Faet	Logged By:	E4.4V	<del></del>
GW andquatered:	8 Faet	Soring Diameter:	ā inchas	Data Onlled:	#/24/07 1	to 1/2//07
GW @ complation:	N.M. Fest	j Welt Stickup:	a	Criller: No	inem Test	Boring

				,		<del></del>			·
FLAGO	DESCRIPTION	REMARKS	SAMPLE		BLOW COUNTS (per 6 inches)	PENETRATION/ RECOVERY (in.)	USCS SYMBOL	Z	WELL
	Black to Dark Brown I-c SAND, some Gravel, trace to little Silt	dry to moist - ash and coal pieces		SS-1	22,18 7,3	24/18	SM	25	
		moist - ash and coal pieces		SS-2	2,2 1,2	24/8	SM	.3	
5-		moist - ash and coal pieces		SS-3	2,1 2,2	24/10	SiVI	3	
		moist ta wet - brick pieces		SS-4	3,4 2,3	24/8	SM	6	
	(very loosa to loosa)	saturated - brick pieces	<b>X</b>	SS-5	2,2 1,1	24/6	SM	3	
	Gray fibrous organic SILT, trace fine Sand	saturated - 5.8% organics, w = 52.9%		SS-6	2,2 2,7	24/8	SM- OL	4	
	(loose) Gray f-c \$AND, tittle Silt								
15		saturated, wood and timber pieces	<b>X</b>	SS-7	2,3 4,5	24/17	<b>SM</b>	7	
	(loose) Gray CLAY, some Sill, plastic								
<u>.</u>	(soft)  Auger and Split Spoon Refusal - End of	saturated - rock pieces		SS-8	4, 50/3"	9/4	ML	>100	
	Boring @ 20.8'								
25-					-				
								1.7	
						ĺ			
-30 									
-35-									
									- copper
		CUE	NT	•					

- 1. Drilling Method: Track mounted Diedrich D-50 with 2-1/4" i.d. Hollow Stem Auger (HSA)
- 2. Soil Sampling: 2-inch Split Spoon Sampler driven with 140 b. hammer falling 30 inches (Auto-Hammer).

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BORING LO	G:	<b>B</b> 116						
Ground Elevation:	Sae Plan	Total Depth:	3.S ≓aat	Logged Sys	WAS			
GW encountared;	N.O. Fear	Boring Diamater:		Date Drilled	1/24/07 to 1/24/07			
GW @ completion;	N.M. Feet	Wall StickLo:	0.	Driller: Nor	tham Tast Boring			

ОВРТН	DESCRIPTION	REMARKS	SAMPLE	SAMPLE	BLOW COUNTS (per 6 (whes)	PENETRATION/ RECOVERY (In.)	TOUMAS SAMBOL	2	WELL
	Dark Brown to Black f-c SAND, little SILT	dry to moist - brick pieces		SS-1	3,3 4,4	24/14	1	7	
	(loose)	moist - brick pleces	这	SS-2	3,5 50/3"	15/5	SM	>100	:
	Auger Refusal - End of Boring @ 3.8'		i						
					:				
-			1	-					
15-									Ì
<u> </u>									
		E de la companya de l							
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<del>-30-</del>									
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- 1. Drilling Method: Track mounted Diedrich D-50 with 2-1/4" i.d. Hollow Stem Auger (HSA)
- 2. Soil Sampling: 2-inch Split Spoon Sampler driven with 140 lb. harmer falling 30 inches (Aulo-Hammer).

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BORING LO				1117
Ground Elevation:	See Plan	Tatal Geçin.	18 Fagt	Logged By: WAS
GW encounteres:	S Faat	during Diameter:	ā inchas	Geta Grillad: 1/24/07 to 1/24/0
GM @ concretion:	М.М. Явес	Well Stickupt	9	Critise Northern Tas: Spring

H LJ 30	DESCRIPTION	REMARKS	SAMPLE	SAMPLE NUMBER	BLOW COUNTS (her 6 inches)	PENETRATION/ RECOVERY (in.)	USCS SYMBOL	Z	WELL
	Gray to Brown I-c SAND, some fine Gravel, some Silt	dry to meist		SS-1	17,15 5,3	24/18	SM	20	
		moist, with ash - w = 6.1%		S3-2	3,3 5,3	24/14	SM	8	
- 5-		moist - ash	8	SS-3	9,11 7,23	24/8	SM	18	
		moist - ash		\$3-4	5,6 5,5	24/7	SM	41	
		wet - ash		SS-5	3,4 4,4	24/3	SM	8	
	becoming dark gray to black	saturated - ash		SS-6	5,5 7,5	24/3	SM	12	
	(loose to firm) Olive to Blue CLAY, some Slit, plastic								
15-	(slift) Auger Refusal - End of Boring @ 18'	moist - PP = 4.0 tsf	X	SS-7	9,11 17, 50/4"	20/17	CL	28	
						i de la companya de l			
			زراء والهويد والمتعادلة	***************************************	-	7			
	· .		****						
-30-				Management of States of St		e de la constante de la consta			
				A STATE OF THE STA		a ger wy da i de i- nego desendada.			
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٨	10	T		C	
1.	11.		⊏		į,

- 1. Drilling Method: Track mounted Diedrich D-50 with 2-1/4" i.d. Hollaw Stem Auger (HSA)
- 2. Soil Sampling: 2-inch Split Spoon Sampler driven with 140 lb. hammer falling 30 inches (Auto-Hammer).

Northeast Civil Solutions

#### SITE:

Village at Little Falls 7 to 13 Depot Street South Windham, Maine

Project No.:

064006

Page: 1



BORING LO	G;		E	8118		
Ground Elevation:	See Plan	Forel Deputy	21 Faet	Lagged Syr	WAS	
GW ancountared:	11 Fast	Boring Diameter:	ð inchas	Cate Orllad:	1/24/07 to	1/24,07
GW @ completion:	N.M. Feet	Wait Stickup:	G	Griller: Nor	them Test B	aring

		Water a section and a section of the section of								
DEPTH	DESCRIPTION	REMARKS	SAMPLE	SAMPLE NUMBER	BLOW COUNTS (per 6 inches)	PENETRATION/ RECOVERY (III)	USCS SYMBOL	Z	WELL	
	Gray f-m SAND, little Silt, little Gravel	dry to maist	X	SS-1	15,12 9,11	24/11	1 "	21		
	becoming Black m-c SAND	moist	X	\$\$-2	9,17 29,23	24/14	SM	46		-
5-		moist		SS-3	9,8 21, 50/4"	22/15	SM	29	The state of the s	
10	becoming some fine silt	moist - concrete pieces		SS-4	10,17 10,12	24/17	SM	27		
15-		wel	XX	SS-5	21,12 11,12	24/1	SM	23.		
-25-	(firm to dense) Auger Refusal - End of Boring @ 22'			SS-6	12,21 27,31	24/0	SM	48		
-30-					The second secon		of Analysis and An			

- Drilling Method: Track mounted Diedrich D-50 with 2-1/4" i.d. Hollow Stem Auger (HSA)
- Hollow Stem Auger (HSA)

  2. Soil Sampling: 2-inch Split Spoon Sampler driven with 140 lb. hammer falling 30 inches (Auto-Hammer).

# CLIENT:

Northeast Civil Solutions

#### SITE:

Village at Little Falls 7 to 13 Depot Street South Windham, Maine

Project No.:

06400

Page VIL\_RESP02903



BORING LO	G;			119
Ground Elevation:	See Plan	Total Depth:	18 Feat	Logged By: Wita
GW encountered:	ili Fest	Boring Diameter	& Inches	Date Crillad: 1/24/07 to 1/24/07
GW @ completion:	N.M. Feet	Wall Siickup:	0	Oriller: Moribern Test Soring

***********			-						
DEPTH	DESCRIPTION	REMARKS	SAMPLE	SAMPLE NUMBER	BLOW COUNITS (per 6 Inches)	PENETRATION/ RECOVERY (in.)	USCS SYMBOL	Z	WELL
-	Gray i-m SAND, little Silt, little Gravel	dry to moist		SS-1	12,16 18,11	24/14	1	34	
	becoming Dark Brown to Black m-c SAND	moist		\$3-2	8,5 20,25	24/12	SM	25	
5-5-		moist		\$S-3	7,17 21,14	24/18	SM	38	
10-	(loose to firm) Olive Silt, little Clay, trace fine Sand	wel	***	SS-4	10,15 15,18	24/17	ML	30	
15-	(medium to stiff)  Auger Refusal - End of Boring @ 18	wei	<b>X</b>	\$3-5	19,13 11,12	24/13	ML	24	
25					And the manage of the state of				e de l'indice de l
30-									
- 35						e de la company de manda de la company de manda de la company de la comp		The second secon	
						1			

NΟ	T	ES:	

- 1. Drilling Method: Track mounted Diedrich D-50 with 2-1/4" i.d. Hollow Stem Auger (HSA):
- 2. Soil Sampling: 2-inch Split Spoon Sampler driven with 140 lb. hammer falling 30 inches (Auto-Hammer).

Northeast Civil Solutions

# SITE:

Village at Little Falls 7 to 13 Depot Street South Windham, Maine

Project No.:

064006



E N G | N & E R 3

Cluit Engineers & Land Streeyers

Project: Geotechi	nical Investigati	on	Project No. 064006					
TEST PIT IDENTIFICATION: TP101								
Location: 12 Dep	ot St, S. Windh	arn, Maine	Ground Slevation:					
Client:				Datjim: NA				
Contractor: ESN	North Atlantic			Operator: Justin Berger				
Equipment: Bobco	at 442 Tracked	Excavator		Samples Collected	□Yes ⊠No			
Capacity/Reach: 1	/2 cubic yard, 1	6'		Time Started:	Time Completed:			
Weather: 35 F, clo	oudy							
Logged by ALB				Date: 2/21/2006				
Checked by:				Date:				
		TEST I	IT IN	FORMATION				
Depth of Stratum Change (feet)	Sample No. and Type	Sample Depth (feet)		Soil Description				
0-0.5	****		Topso	oil, organics				
0.5 + 3"			Datk E	: Brown/Black f-m SAND, little Silt, cobbles				
3 - 4.5"	s, a year-timestation ton		Grayis	h Brown Clayey Silt				
4.5'			Refusa	sal on Bedrock @ 4.5'				
			ground	ndwater encountered at 3' bgs (adjacent to creek)				
Pit Dirnensions (Pt.) Length: <u>6</u> Width: <u>2</u> Depth: <u>4</u>	<u>5</u>		analysi	iposite sample subi	mitted to for material.			



Civit Engineers & Land Surveyors

Project: Geotechr	nical Investigation	on	Project No. 064006					
TEST PIT IDEN	TIFICATION:	TP102						
Location: 12 Dep	ot St, S. Windh	ım, Maine	Ground Elevation:					
Client:	.1			Datum: NA				
Contractor: ESN 1	North Atlantic			Operator: Justin Berger				
Equipment: Bobca	at 442 Tracked I	Excavator		Samples Collected	∐Yes ⊠No			
Capacity/Reach: I	/2 cubic yard, I	6'		Time Started:	Time Completed:			
Weather: 35 F, clo	oudy							
Logged by ALB				Date: 2/21/2006				
Checked by:				Date:				
		TEST I	INI TI	ORMATION				
Depth of Stratum Change (feet)	Sample No. and Type	Sample Depth (feet)		Soil Descr	іртіоп			
0-1.5'			Brown	n f-m SAND, little Silt, metal, cobbles				
1.5 - 2.51			Tan fii	ne SAND and SILT, weathe	red rock fragments			
2.5			Refusa	of on Bedrock @ 2.51				
			no gro	groundwater encountered				
Pit Dimensions (Ft.) Length: 6 Width: 3 Depth: 2	5		ks: nposite sample subtru s. pit backfilled with native m	tted to for- naterial.				



Civit Engineers & Land Surveyors

Project: Geotechnical Investigation				Project No. 064006				
TEST PIT IDEN	TIFICATION:	TP103						
Location: 12 Depot St, S. Windham, Maine				Ground Elevation:				
Client:			7.4	Datum: NA				
Contractor: ESN	North Atlantic			Operator: Justin Berger				
Equipment: Bobo	at 442 Tracked	Excavator		Samples Collected	∏Yes ⊠No			
Capacity/Reach: 1	/2 cubic yard, 1	6'		Time Started:	Time Completed:			
Weather: 35 F, ele	oudy							
Logged by ALB				Date: 2/21/2006	,			
Checked by:				Date:				
		TEST I	INI TI	FORMATION				
Depth of Stratum Change (feet)	Sample No. and Type	Sample Depth (feet)		Soil De	scription .			
0 - 2'	- A sylvation	. The same of the	Brown	vn f-m SAND, little Silt, brick, ash				
2 - 3,5'			Tan fi	ine SAND and SILT, weathered rock fragments				
3.51			Refuse	usal on Bedrock @ 3.5'				
n				no groundwater encountered				
Length: 5.5 Width: 2.5			analysi	nposite sample sub	emitted to for ematerial.			



Civil Engineers & I	Land Surveyors				and Al-Coloccide was a survey of the colocular and the colocular a	
Project: Geotechnical Investigation			Project No. 064006			
TEST PIT IDEN	TIFICATION:	TP104		•		
Location: 12 Dep	ot St, S. Windh	ım, Maine		Ground Elevation:	*	
Client:				Datum: NA		
Contractor: ESN !	North Atlantic			Operator: Justin Berger		
Equipment: Bobs	at 442 Tracked	Excavator		Samples Collected	□Yes ⊠No	
Capacity/Reach: 1	/2 cubic yard, 1	<i>5</i> '		Time Started:	Time Completed:	
Weather: 35 F, clo	oudy					
Logged by ALB				Date: 2/21/2006		
Checked by:				Date:		
		TEST I	'IT IN	FORMATION		
Depth of Stratum Change (feet)	Sample No. and Type	Sample Depth (feet)		Soil Des	cription	
0 - 2'	Manager and the second		Brown	1 f-m SAND, little Silt, bri	ck, metal	
2 - S' Light			Light	Brown fine to medium SAND, some Silt		
S			Refusa	al on Bedrock @ 5'		
			no gro	undwater encountered	The second of production of the second of th	
	ang 1988 (1986) (1987) (1986)		e er e derte eilem	and depth \$1.50 and mendaling a companying of management of the second s		
Width 3 analys			nposite sample subt	nitted to for material.		



Civil Engineers &	Land Surveyors		de eller v Talvis suppression in			
Project: Geotechnical Investigation			Project No. 064006			
TEST PIT IDEN	TIFICATION:	TP105				
Location: 12 Depot St, S. Windham, Maine				Ground Elevation:		
Client:				Datum: NA		
Contractor: ESN 1	North Atlantic			Operator: Justin Berger		
Equipment: Bobo	at 442 Tracked 1	Excavator		Samples Collected	□Yes ⊠No	
Capacity/Reach: 1/2 cubic yard, 16				Time Started:	Time Completed:	
Weather: 35 F, clo	oudy					
Logged by ALB				Date: 2/21/2006		
Checked by:				Date:		
		TEST I	eni tis	FORMATION		
Depth of Stratum Sample No. Sample Change (feet) and Type Depth (feet)				Soil Description		
0 - 0.5'			Brown	f-m SAND, little Silt, b	ríck, metal	
0.5 - 1.5'			Brown	rown fine to medium SAND, little Silt, cobbles		
1.5- 5'				ray-Brown fine to medium SAND, some silt, cobble sized ock fragments		
promote the second of the second seco			( * ** ** ** * * * * * * * * * * * * *	efusal on Bedrock @ 5' groundwater encountered		
Length: $\frac{\delta}{a}$			analys	aposite sample sub	omitted to for e materia).	



# ENGINEERS Civil Engineers & Land Surveyors

Project: Geotechnical Investigation			Project No. 064006			
TEST PIT IDEN	TIFICATION:	TP106				
Location: 12 Depot St, S. Windham, Maine			Ground Elevation:			
Client:				Datum: NA		
Contractor: ESN ?	Vorth Atlantic			Operator: Justin Berger		
Equipment: Bobca	it 442 Tracked 1	Excavator	<del></del>	Samples Collected	∏Yes ⊠No	
Capacity/Reach: 1	/2 cubic yard, I	6'		Time Started:	Time Completed:	
Weather: 35 F, clo	udy					
Logged by ALB	1			Date: 2/21/2006		
Checked by:				Date:		
		TEST 1	INI TI	FORMATION		
Depth of Stratum Change (feet)	Sample No. and Type	Sample Depth (feet)		Soil Des	cription	
0 - 0.5'	en en en en en en en en en en en en en e	- Marie Sand	forest	mat, organiës		
				wn fine to medium SAND, little Silt, cobbles, weathered fragments		
21	e e e e e e e e e e e e e e e e e e e		Refusa	sal on Bedrock @ 2'		
e de t <del>ransmi</del> te est <del>an</del> ciale.			no gro	groundwater encountered		
	-75.2		Special Control			
Width: 25 analys			posite sample subr	nitted to for material.		



Civil Engineers 3	Land Surveyors	· · · · · · · · · · · · · · · · · · ·			M. L. C.	
Project: Geotechnical Investigation				Project No. 064006		
TEST PIT IDEN	TIFICATION:	TP107				
Location: 12 Dep	ot St, S. Windh	am, Maine		Ground Elevation:		
Client;				Datum: NA		
Contractor: ESN	North Atlantic			Operator: Justin Berge		
Equipment: Bobc	at 442 Tracked	Excavator		Samples Collected	□Yes ⊠No	
Capacity/Reach: 1	/2 cubic yard, 1	,6'	***************************************	Time Started:	Time Completed:	
Weather: 35 F, clo	oudy	A. Crange				
Logged by ALB				Date: 2/21/2006		
Checked by:				Date:		
**************************************		TEST	PIT INF	ORMATION		
Depth of Stratum Change (feet)	Sample No. and Type	Sample Depth (feet)		Soil Description		
0 - 2"	removement of the contraction of	diametro accounts to the second second second second second second second second second second second second se	Brown rock fr	Brown fine to medium SAND, little Silt, brick, metal, wood, rock fragments		
2 - 5.5	A THE STATE OF THE		Gray to Brown f-m SAND, "stacked" rock backfill			
5.5'		entrement få i 1948 ja ja jamme edstemmen straet.	Refusal on Bedrock @ 5.5'			
<del></del>			ground	water seepage into exca	vation @ 5.5'	
		nia na - , , , , , , , , , , , , , , , , , ,	\$ - 9.50 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 -	The second secon	and described and a supplemental state of the supplemental state of th	
alpun yangkanahan anti vi e enamenan	ONE OF THE PARTY O	.er, s <del>an</del> paramanananananananan (h.e. ). (	700000 T	वर्षः १८ - इ.स. प्रवासम्बर्णाणनीयस्थः १९८ तः १८५३ सम्बर्णसम्बर्णसम्बर्णसम्बर्णसम्बर्णसम्बर्णसम्बर्णसम्बर्णसम्बर	Market P. 1977 - Na Americania (I.) 44 (In-Procedulate II.)	
Length: 5.5  Width: 3			analysi:	posite sample su	bmitted to for	



Civit Engineers & I	and Surveyors	18.5				
Project: Geotechr	iical Investigatio	on		Project No. 064006		
TEST PIT IDEN	TIFICATION:	TP109				
Location: 12 Depot St, S. Windham, Maine				Ground Elevation:	And the second s	
Client:	Client:			Darum: NA		
Contractor: ESN?	North Atlantic			Operator: Justin Ber	ger	
Equipment: Bobe	at 442 Tracked 1	Excavator		Samples Collected	☐Yes ⊠No	
Capacity/Reach: 1/2 cubic yard, 16'				Time Started:	Time Completed:	
Weather: 35 F, clo	nudy			The second of th		
Logged by ALB				Date: 2/21/2006		
Checked by:				Date:		
	and the second s	TEST I	PIT INI	FORMATION		
Depth of Stratum Change (feet)	Sample No. and Type	Sample Depth (feet)		Soil	Description	
			Comp	Compacted fill, construction debris (metal and concrete)		
			Large void to ~ 6' down along side foundation wall (block wall)			
0.017			excavation could not be advance beyond 6" with excavator due to frost and concrete slab			
				enteres diffic experiences to here		
:	entra de la composition della	market and a substitution		grafia de la Computación de la Section de la Computación de la Computación de la Computación de la Computación		
2. 27. 14. 14. 14. 14. 14. 14. 14. 14. 14. 14	- <u> </u>	y nga mangangang mingga pangan ngangan pangan p		(v) i de la companya de la companya de la companya de la companya de la companya de la companya de la companya	**************************************	
		en enemande de la 199 Communicación de la 199 Communic			A proposition of the second of	
T. Address of the State of the		· ·	and the second of	<del></del>	and the second of the second s	
Length: n/a Width: n/a		analysi	nposite sample	submitted to for tive material,		



Civil Engineers &	Land Surveyors				MAN CHARLES	
Project: Geotechi	Project: Geotechnical Investigation			Project No. 064006		
TEST PIT IDEN	TIFICATION:	TPIIO	- <del></del>		A PAG CONTRACTOR OF THE PAGE O	
Location: 12 Dep	Location: 12 Depot St, S. Windham, Maine			Ground Elevation:		
Client:	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	<del> </del>	7	Datum: NA		
Contractor: ESN 1	North Atlantic			Operator: Justin Berger		
Equipment: Bobe	at 442 Tracked 1	Excavator		Samples Collected	∐Yes ⊠No	
Capacity/Reach: 1	/2 cubic yard, 1	6°	×	Time Started:	Time Completed:	
Weather: 35 F, clo	oudy					
Logged by ALB			<del>V - 10 0 - 1</del>	Date: 2/21/2006		
Checked by:				Date;		
		TEST I	PIT INI	FORMATION		
Depth of Stratum Change (feet)	Sample No. and Type	Sample Depth (feet)		Soil De	scription	
0 - 1.5'		emerican M. Assist substitutes	Brown weath	rown fine to medium SAND, little Silt, cobbies and cathered rock		
1.5'		I PER ANNUAL PROPERTY OF THE PERSON OF THE P	Refusa	Refusal on Bedrock @ 1.5'		
2		en vermenssensensen er i d	ground	oundwater seepage into excavation @ 5.5'		
SOTT AND THE STATE OF THE STATE	Availed <del>Availed an</del> dust on	metane amunitati di da	, ere i — — — — — — — — — — — — — — — — — —	- garday		
eria. Auto <del>no ma</del> nten e eta en en	<del>olitimasi on 1</del> 18 in anadel		inamatan aya	s designation of the second section of the section	**************************************	
- M		and the second s		The second section is a second		
	with the same of t	9- <del>1</del>		note the state of	· · · · · · · · · · · · · · · · · · ·	
Length: 6 ana			analysi	iposíte sample sub	mitted to for : material.	



ENCINEERS

Civit Engineers & 1	land Surveyors					
Project: Geotechr	nica! Investigatio	on		Project No. 064006		
TEST PIT IDEN	TIFICATION:	TP111				
Location: 12 Dep	ot St, S. Windha	ım, Maine		Ground Elevation:		
Client				Datum: NA		
Contractor: ESN ?	North Atlantic		· · · · · · · · · · · · · · · · · · ·	Operator: Justin Berger		
Equipment: Bobca	at 442 Tracked	Excavator		Samples Collected	∐Yes ⊠No	
Capacity/Reach: 1	/2 cubic yard, 1	6'		Time Started:	Time Completed:	
Weather: 35 F, clo	oudy	<u> </u>	÷			
Logged by ALB				Date: 2/21/2006	-	
Checked by:				Date:		
		TEST I	PIT IN	FORMATION	a de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de la c de la compansión de la compan	
Depth of Stratum Change (feet)	Sample No. and Type	Sample Depth (feet)		Soil Description		
0 - 2'			Topso	il, Organics		
	<del></del>	n a <del>a a a a a a a a a a a a a a a a a a</del>	 			
0.5 - 4.5'	<del>andruksa - Ladro</del>		Dark I	Dark Brown f-m SAND, trace Silt, brick, concrete, metal, ash		
4.5 - 6.5'	r afah	· / / - / - / - / - / - / - / - / - / -	Tan fi	Can fine SAND and Silt, some weathered bedrock		
6.5'		· <u> </u>		ål on bedrock @ 6.5'		
)	**************************************			groundwater encountered		
gg maghama a said y yiyyaya said wasan		<del>and the second </del>		· · · · · · · · · · · · · · · · · · ·		
		· · · · · · · · · · · · · · · · · · ·		t	The State of the Control of the Cont	
Length: 6.5 Width: 3		analys	nposite sample sub	omitted to for e material.		



# Soil Classification Terms

	Grain Size					
Malerial	Fraction	Sieve Size				
Boulders		12"+				
Cobbles		3"-12"				
Grayel	coarse	³¼"-3"				
	fine	No. 4 to %"				
Sand	coarse	Na. 10 to No. 4				
	medium	No. 40 to No. 10				
	fine	No. 200 to No. 40				
Fines		Passing No. 200				
(Silt & Clay)						

Identification of soil type is made on the basis of an estimate of particle sizes, and in the case of fine-grained soils, also on basis of plasticity.

Coarse and Fine Grained Soils			
Descriptiva Adjective	*Percentage Requirement		
Trace	1-10%		
Little	10-20%		
Some	20-35%		
And	35-50%		

When sampling gravelly soils with a standard split spoon, the true percentage of gravel is often not recovered due to the relatively small sampler diameter.

\*Parcentage measured by weight.

# Standard Penetration Values (N) v. Relative Density & Consistency

	GRANULAR		COHESIVE
N	Relative Density (%)	N	Consistency
		<2	Very Soft
0-4	Very Loose (0-15)	2-4	Soft
4-10	Loose (15-35)	48	Medium
10–30	Firm (35-65)	8–15	Stiff
30-50	Dense (65-85)	15–30	Very Stiff
>50	Very Dense (>85)	>30	Hard



Civil Engineers & Land Surveyors

#### Rock Classification Terms

		Weathering Classification
Grade	Symbol	Diagnostic Features
Fresh	F	No visible sign of decomposition or discoloration. Rings under hammer impact.
Slightly Weathered	W/S	Slight discoloration inwards from open fracture, otherwise similar to F.
Moderately Weathered	AAM	Discoloration throughout. Weaker mineral such as feldspar decomposed. Strength somewhat less than fresh rock but cores can not be broken by hand or scraped by knife.
Highly Weathered	WH	Most minerals somewhal decomposed. Specimens can be broken by hand with effort or shaved with knife. Gore stones present in rock mass. Texture becoming distinct but fabric
Completely Weathered	WC	Minerals decomposed to soil but fabric and structure preserved (Saprolite). Specimens easily crumbled or penetrated.
Rasidual Soil	RS	Advanced state of decomposition resulting in Plastic soils. Rock fabric and structure completely destroyed. Large volume change.
	I	I.

	Rock Descrip	otors		
Term		Meaning		
Hardness	Soft Medium Hard	Scratched by fing Scratched easily		
	Hard		ifficulty by penknile	
	Very Hard	Cannot be scratched by penknife		
Jointing/ Stight		2 to 6 ft. spacing		
Fractures	Moderale	8in. to 2 ff.		
	High	2 in. to 8 in.		
	Intense	< 2in.		
Bedding	Laminated	(<1")	Natural Break	
	Thin Bedded	(1" ± 4")	in Rock Layers	
	Bedded	(4" - 12")		
	Thick Bedded	( 12" - 36" )		
	Massive	( > 36")		



Civil Engineers & Land Surveyors

Unified System Classification of Soils (ASTM D-2487).

	Auther c	Agretti Algaa	UNICALION CI S	Soils (ASTM D-2487)	
	Major Divisions		Group Symbols	Typical Names	
Coarse-Grained Soils More than 50% retained on No. 200 sieve	)f	Clean Gravels	GW	Welf-graded gravels and gravel-sand mixtures, little or no fines.	
	Gravels 50% or more of coarse fracton retained on No. 4 sieve		GP	Poorly graded gravels and gravel-sand mixtures, little or no fines.	
		Gravels w/ Fines	G₩	Silty gravels, gravel-sand-silt mixtures.	
			GC	Clayey gravels, gravel-sand-clay mixtures.	
	Sands More than 50% coarse fraction passes No. 4 sieve	Clean Sands	SW	Well-graded sands and gravelly sands little or no fines.	
			SP	Poorly graded sands and gravelly sands little or no fines.	
		Sands w/ Fines	SM	Silty gravels, gravel-sand-silt mixtures.	
			sc	Clayey sands, sand-clay mixtures.	
Fine-Grained Soils 50% or more passes No. 200 sieve	Sitts and Clays Liquid Limit 50% or less		ML	Inorganic sills, very fine sands, rock flour, silty or clayey sands,	
			CL	Inorganic clays of low plasticity, gravelly clays, sandy clays, silty clays.	
			OL.	Organic silts and organic silty clays of low plasticity.	
	Silts and Clays Liquid limit greater than 50%		MH	Inorganic silts, micaceous or diatomaceous fine sands or silts, elastic silts	
			сн	Inorganic clays of high plasticity, fat clays.	
20% (			ОН	Organic clays of medium to high plasticity.	
Highly Organic Solls			Pt	Peat, much and other highly organic soils	

#### ATTACHMENT C

Laboratory Analysis

Geotechnical Investigation Village at Little Falls, LLC 7 to 13 Depot Street South Windham, Maine



# JOHN TURNER CONSULTING, INC.

# REPORT OF ATTERBERG LIMITS TEST RESULTS

CLIENT:

Oak Engineers

PROJECT:

South Windham, Maine

Attn: Mr. Wally Shedd

Brown's Wharf

Newburyport, MA 01950

064006

DATE:

February 27, 2007

REPORT#:

07-010-005

Date Received: 01-30-07

Sampled By:

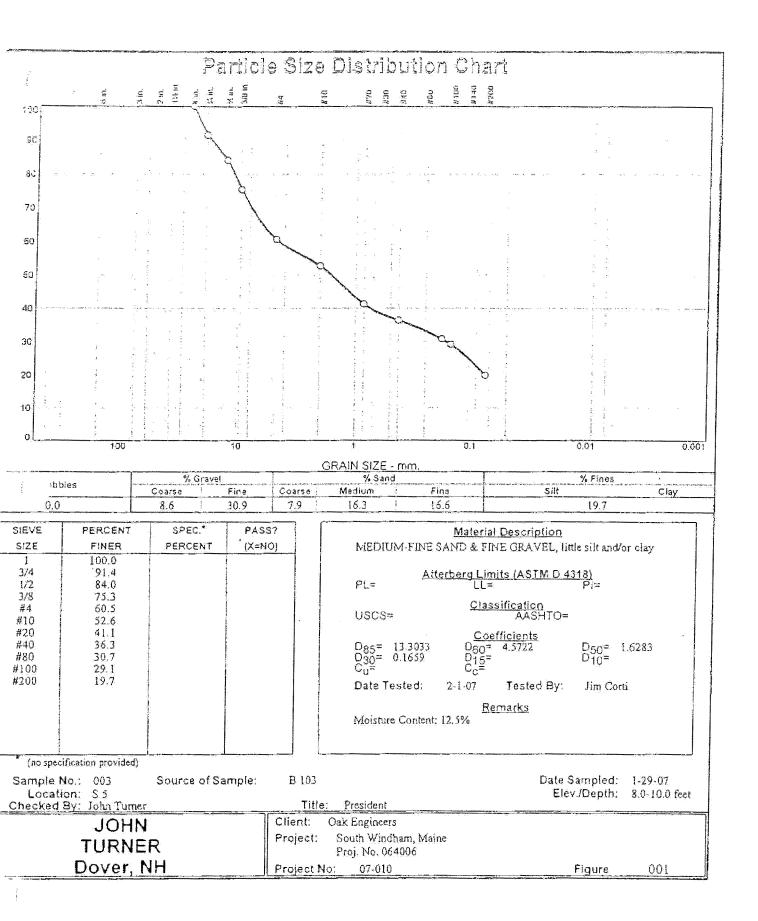
Client

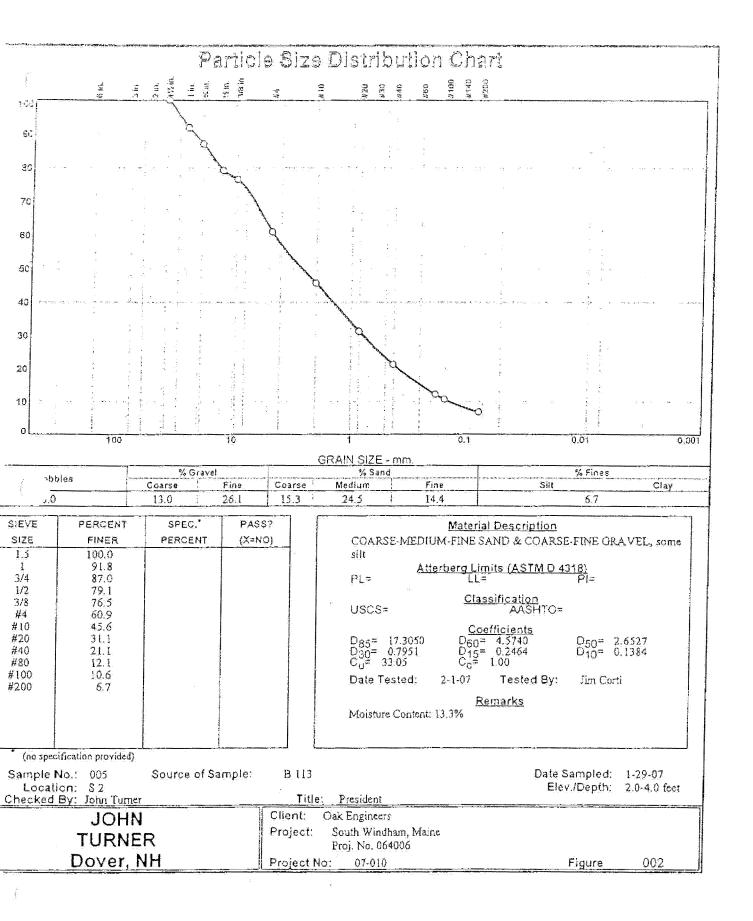
Method Used: ASTM D 4318

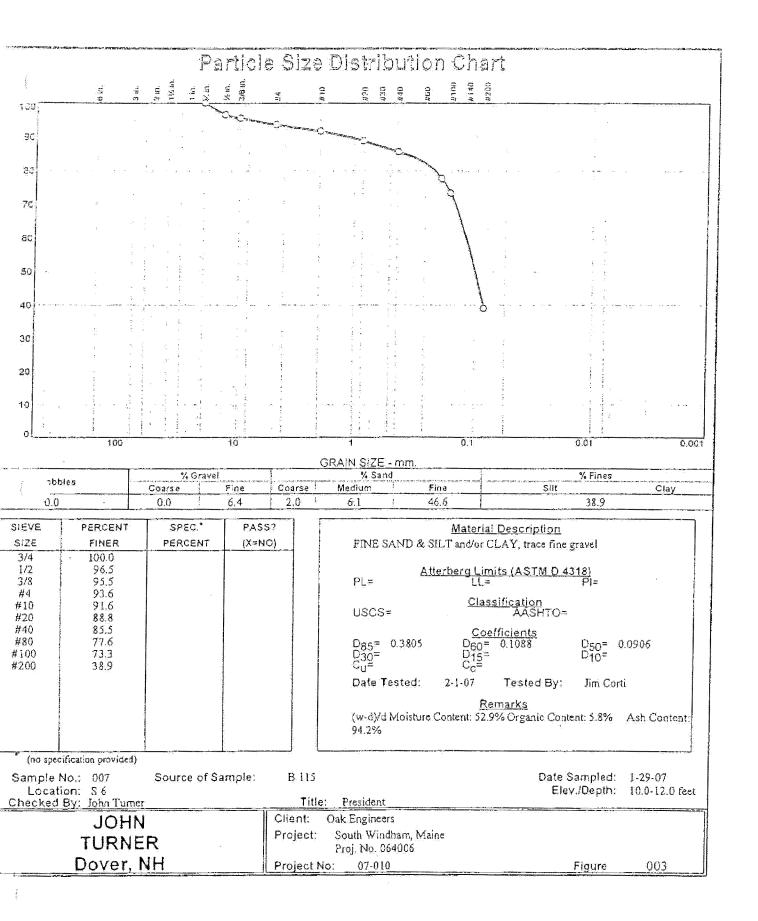
Tested By:

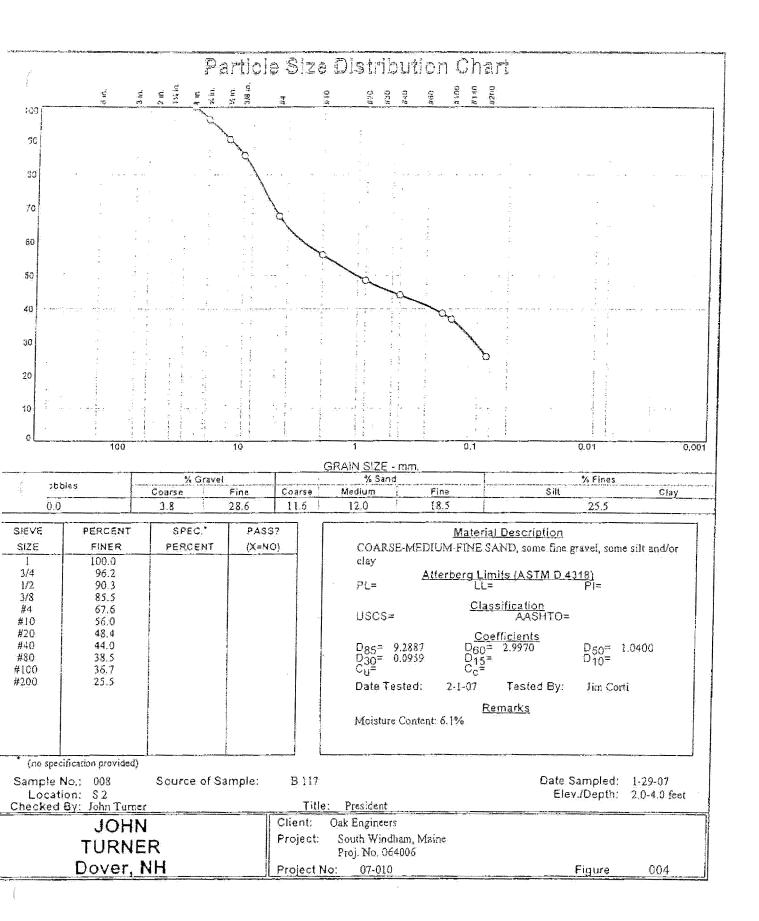
Jim Corti

ID	Source	Depth (Feet)	Material Type	Moisture Content	Liquid Limit	Plastic Limit	Plasticity Index
001	B101 S4	6-8	Clay	27.2%	38	22	16
002	B102 S3	4-6	Silt, t-fs	26.2%	20	N/A	Non-Plastic
004	B105 S2	2-4	Silt, t-g, t-fs	24.7%	23	N/A	Non-Plastic
006	B114 S9	25-27	Clay	38.7%	33	20	13











1145 Massachusetts Avenue Boxborough, MA 01719 978 635 0424 Tel 978 635 0266 Fex

Trans	mitta			
To:	ku	and the second s		
Mr. Wende	ll Shedd		DATE: 2/15/07	GTX NO: 7278
Oak Engine				006 – Windham, ME
Browns Wh			Client Project No. 064	4006
Newburypo	rt, MA 01950	and the contract of the contra		
		nga ayan karangan ayan garangan karangan ayan ayan ayan ayan ayan ayan ayan		
			•	
	Care Care Care Care Care Care Care Care			
COPIES	DATE		DESCRIPTION	
	2/15/07	February 2007 Laboratory		
**************************************				
REMARKS:				
	**		A CONTRACTOR OF THE PROPERTY O	and the second of the first of the second of
				7
		DIOLOGO	1.4	
DC:		SIGNED:	Joe Tomei - Kaboraton	v Manager
2.00g			OSC / OFFICE - Laborator	) with radial
		APPROVED BY:	Gay	
			Gary Torosian – Directo	or of Testing Services



February 15, 2007

Mr. Wendell Shedd Oak Engineers Browns Wharf Newburyport, MA 01950

Re: Pr

Project No. 064006 - Windham, ME (GTX-7278)

Dear Mr. Shedd:

Enclosed are the test results you requested for the above referenced project. GeoTesting Express, Inc. (GTX) received one Shelby Tube sample from you on February 1, 2007. This sample was labeled as follows:

B-114 (23-25 ft)

GTX performed the following tests on this sample:

One- Point CU Triaxial (ASTM D 4767)

Incremental Consolidation (ASTM D 2435)

py of your test request is attached.

The results presented in this report apply only to the items tested. This report shall not be reproduced except in full, without written approval from GeoTesting Express. The remainder of these samples will be retained for a period of sixty (60) days and will then be discarded unless otherwise notified by you. Please call me if you have any questions or require additional information. Thank you for allowing GeoTesting Express the opportunity of providing you with testing of geosynthetics. We look forward to working with you again in the future.

Respectfully yours,

Joe Tomei

Laboratory Manager

GeoTesting Express, Inc.

'assachusetts Avenue
.ough, MA 01719
800 434 1062 Toll Free
978 535 0266 Fox

www.geatesting.com. 2662 Holcomb Bridge Road, Suite 310. Alpharetto, GA 30022 770 645 6575. Tel 770 645 6570 Fax

# GeoTesting express

1145 Massachuseตัว Ayenus Bexborough, MA 01719 978 635 0424 Tel 978 635 0266 Fax

Geotechnical Test Report

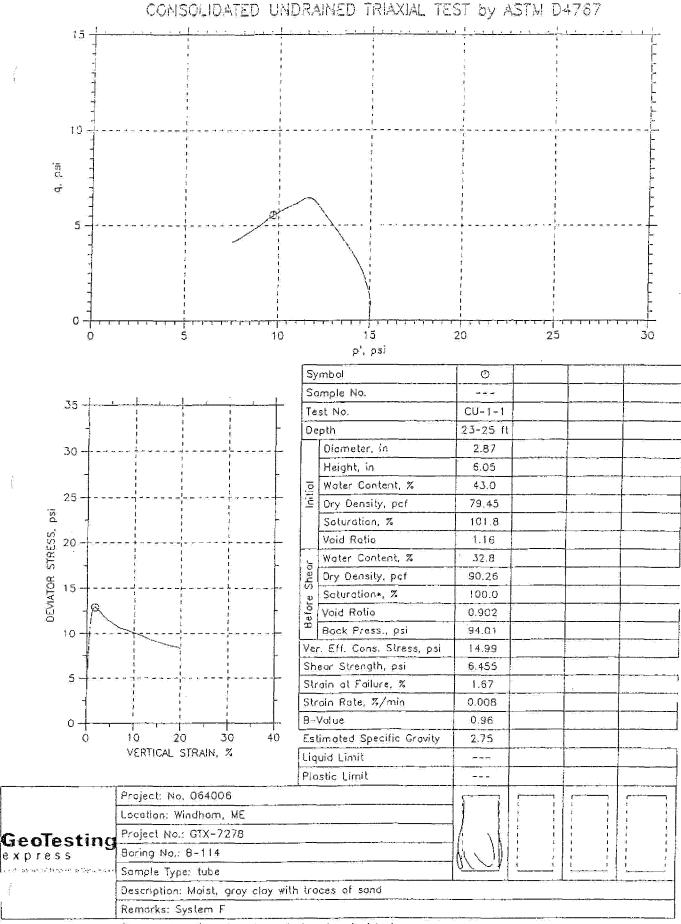
February 15, 2007

GTX-7278 Project No. 064006

Windham, ME

Prepared for:

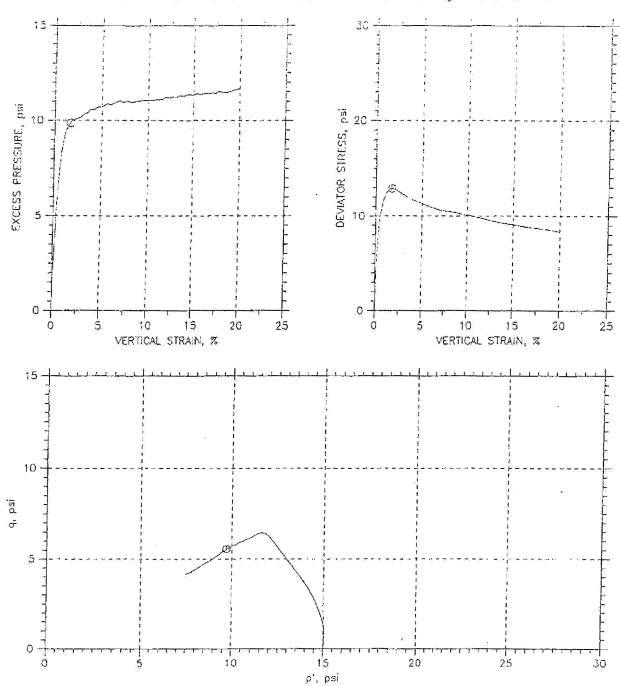
Oak Engineers



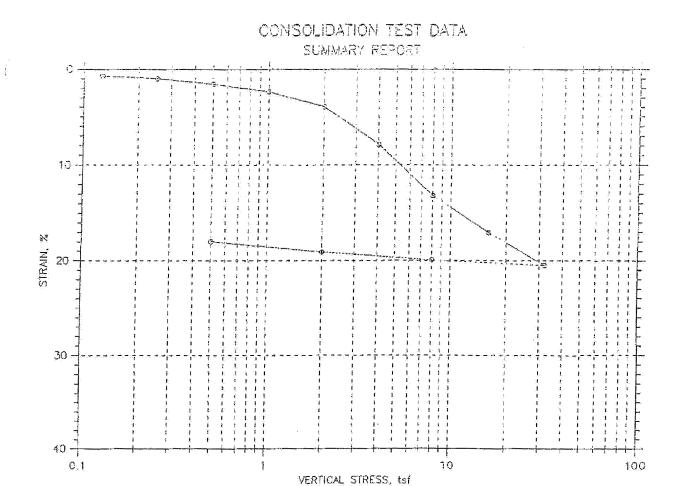
Phase calculations based on start and end of test.

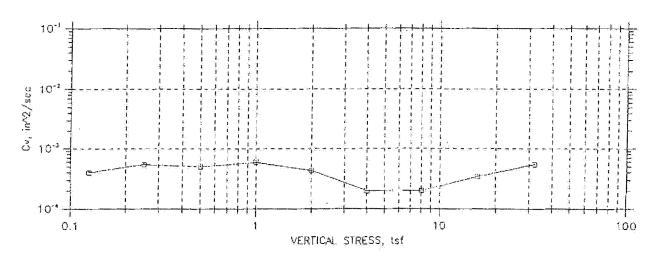
<sup>\*</sup> Saturation is set to 100% for phose colcutations.

# CONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D4767



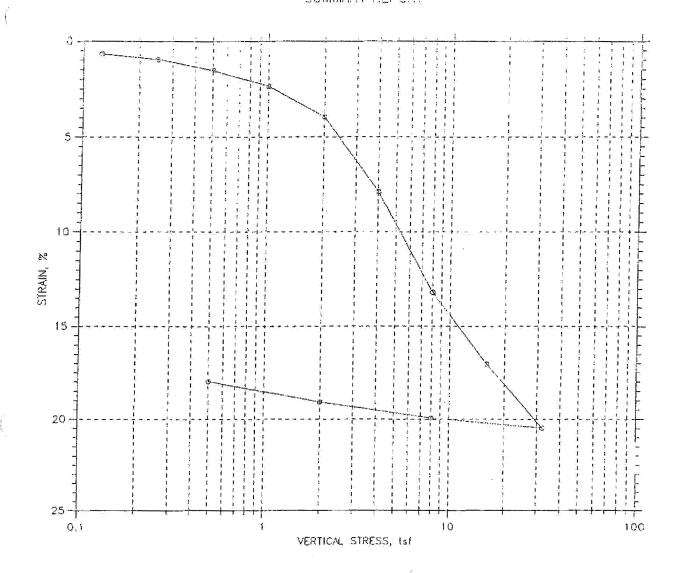
	Sample No.	Tes	t No.	Depth	Tested By	Test Dole	Checked By	Check Date	Test File
Ø		cu	-1-1	23-25 ft	yf	02/09/07	jdt		7278-CU1-1.dat
GF	oTesti	กด	Project	No. 064006		Location: Wi	ndhom, ME	Projec	t No.: GTX-7278
1	nress	-	8oring	No.: 8-114		Sample Type	≥: tube		
É		SH Gara	Descrip	tion: Moist, g	roy clay with	traces of sa	nd		
J			Remark	s: System F					The second secon





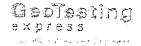
	Project: No. 064005	Location: Windham, ME	Project No.: GTX-7278		
	Boring No.: B-114	Tested By: md	Checked By: jdt		
enTacting	Sample No.:	Test Date: 02/06/07	Depth: 23-25 ft		
xpress	Test No.: C-1	Sample Type: Tube	Elevation:		
	Description: Maist, gray clay with traces of sand				
	Remarks: System G				

## CONSOLIDATION TEST DATA SUMMARY REPORT



					Before Test	After Test
Overburden	Pressure:			Water Content, %	32.16	20.20
Preconsolida	otion Pressure:			Dry Unit Weight, pcf	90.86	110.8
Compression	n Index:			Saturation, %	98.80	100.00
Diameter: 2	,5 in	Height: 1 i	n	Void Ratio	0.90	0.56
LL:	PL:	PI:	GS: 2.77		·	

	Project: No. 064005	Location: Windham, ME	Project No.: GTX-7278		
	Boring No.: 8-114	Tested By: md	Checked By: jdt		
GenTacting	Sample No.:	Test Oate: 02/06/07	Depth: 23-25 ft		
xpress	Test No.: C-1	Sample Type: Tube	Elevation:		
**	Description: Moist, gray clay with traces of sand				
ale particular de la constantina della constanti	Remarks: System G				



Froject: No. 064306 Boring No.: 3-114 "-- 313 Mg.: 5-1 | No.: C-1 Logacion: Windham, M3 Tested By: md Test: Data: 03/05/07 Sample Type: Tuba Project No.: GTX-7273 Chacked Sy: jdc Depth: 23-25 ft Elevation: ---

i. .. Description: Moisq, gray clay with traces of sand Remarks: System  ${\bf G}$ 

Estimated Specific Gravity: 2.72 Inschal Void Ratio: 0.90 Final Void Ratio: 0.56 Liquid Limiz: ---Plastic Limit: ---Plasticity Index: --- Initial Height: 1.00 in Specimen Diameter: 2.50 in

	Before Consolidation		After Consolidation	
	Trimmings	Spazimen-Ring	Specimen+Ring	Trimmings
Concainer ID	Horn Frogs	RING		
WE. Container + Wet Soil, qm	297,43	371.13	357.13	143.78
Wt. Container + Dry Soil, gm	217.65	333,48	333.48	125.1ó
Wt. Container, qu	8.04	215.41	216.41	8.24
Wt. Dry Soil, gm	209.61	11707	117.07	116.92
Water Content, %	38.09	32.16	20,20	20.20
Void Ratio	pl return	0.90	0.56	===
Degree of Saturation, %	577	98.83	100.00	
Dry Unit Weight, pcf		90.856	110.76	

Note: Specific Gravity and Void Ratios are calculated assuming the degree of saturation equals 100% at the end of the test. Therefore, values may not represent actual values for the specimen.

# Geolesting express

CONSOLIDATION TEST DATA

Docation: Mindhem, ME Tescad By: md Tesc Dace: 01/06/07 Sample Type: Tube Projeco No.: GIX-7273 Checked Ay: jdc Geokh. 23-25 fc Slevacion: ---

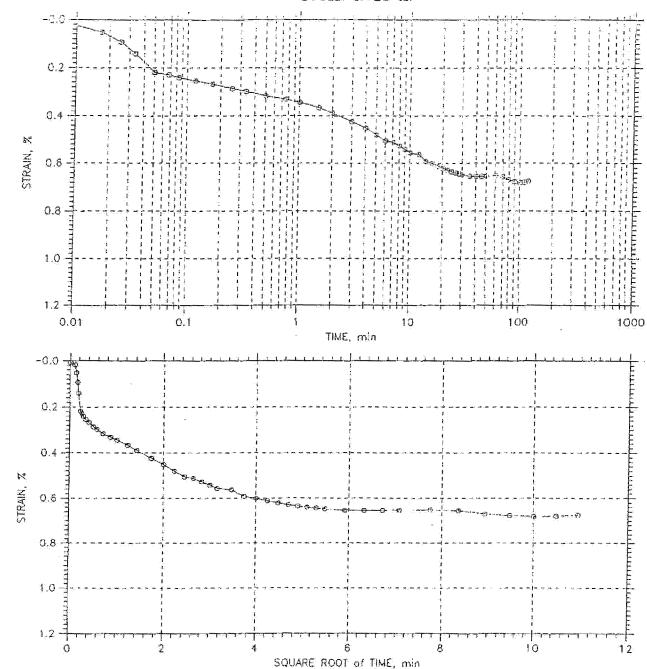
Soil Description: Moist, gray clay with staces of sand Remarks: System  $\boldsymbol{G}$ 

	Appliad	71001	Veid	Saraia	TSO Fi	calog.	Caeiši	diena of Con	salidation
	Siress	Displacement	Racio	a: End	Sब्. Ra.	Log	5q. Rc.	Log	Ave.
	tsi	in		왐	min	aia	in^2/sec	in^2/sec	in^2/sec
5 ·	0.123	0.006742	0.887	0.67	2.0	0.0	4.01e-054	0.00a+000	4.01e-004
2	0.23	0.00364	0.832	0.95	1.4	1.6	S.94e-004	S.012-004	5.44=-004
3	0.5	0.0154	0.871	1,54	1.5	1.7	5.13e-004	4.85e-004	5.01e-004
4	1	0.02362	0.355	2.36	1.1	1.6	7.14e-004	5.09a-004	S.94e-004
-5	2	0.03952	0.325	3.93	1.3	1.3	4.38e-004	4.22e-004	4.30e-004
ő.	4	0.07839	0,750	7,89	3.6	3.7	2.03e-004	1.95e-004	1.99a-004
7	.8	0.1318	0.650	13.13	3.2	3.4	2,07e-004	1.96e-004	2.01e-004
8	15	0.1703	0.577	17.03	1.4	2.0	4.25e-004	2.91e-004	3.45e-004
9	32	0.2043	0.511	23.43	0.9	1,1	6.02s-004	4.95e-004	5.44e-004
10	. <del>a</del>	0.1994	0.521	19.94	0.0	0.0	6.63e-002	0.00e+000	6.6Je-002
11	2	0.1909	0.538	19.09	Q.4:	0.0	1.20e-003	0.00e+000	1.20e-003
12	0.5	0.1797	0.559	17.97	3.5	3.9	1.57e-004	1.392-004	1.47e-004

TIME CURVES

Constant Load Stept 1 of 12

Stress: 0.125 tsf



	Project: No. 064006	Location: Windham, ME	Project No.: GTX-7278		
	Boring No.: B-114	Tested By: md	Checked By: jdt		
GenTestina	Sample No.+	Test Dote: 02/05/07	Depth: 23-25 ft		
express	Test No.: C-1	Sample Type: Tube	Elevation:		
	Description: Moist, gray clay with troces of sand				
	Remorks: System G				

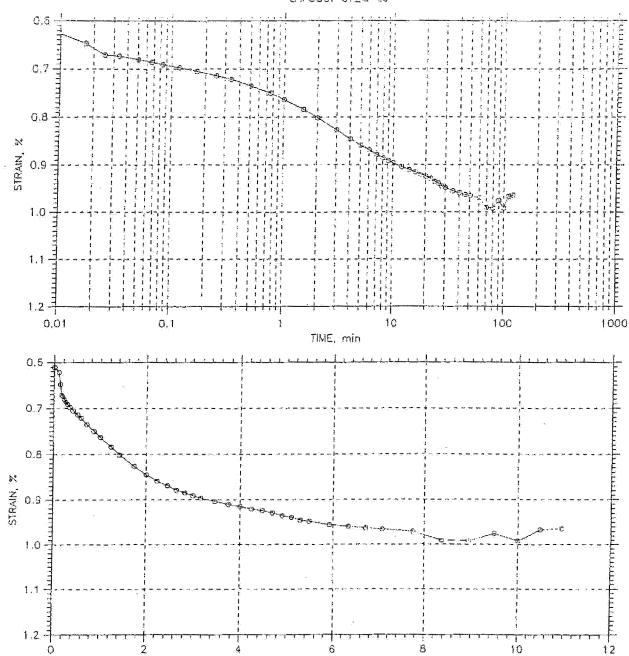
14-FE8-2007 13:47:06

VIL\_RESP02934

TIME CURVES

Constant Load Step: 2 of 12

Stress: 0.25 tsf



	Project: No. 064006	Location: Windham, ME	Project No.: GTX-7278		
GooTooting	Boring No.: 8-114	Tested By: md	Checked By: jdt		
	Sample No.:	Test Oote: 02/06/07	Depth: 23-25 ft		
express	Test No.: C-1	Sample Type: Tube	Elevation:		
The state of the s	Description: Moist, gray clay with traces of sand				
	Remarks: System G				

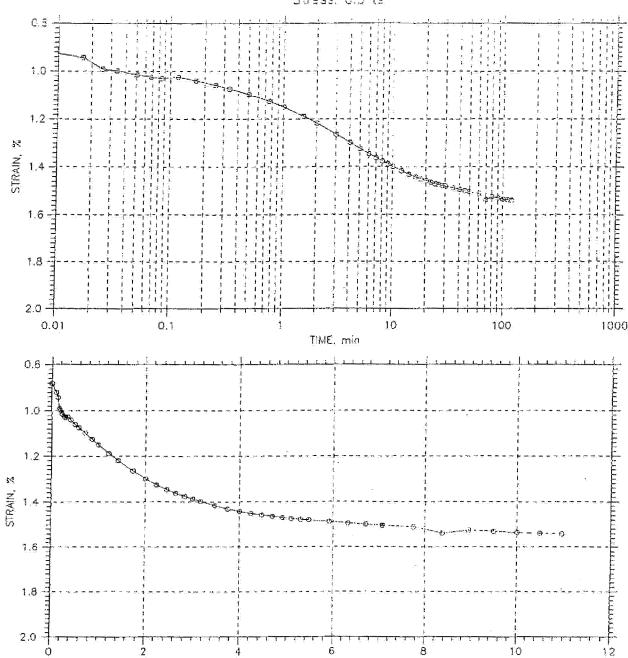
SQUARE ROOT of TIME, min

VIL\_RESP02935

TIME CURVES

Constant Load Step: 3 of 12

Swess: 0.5 tsf



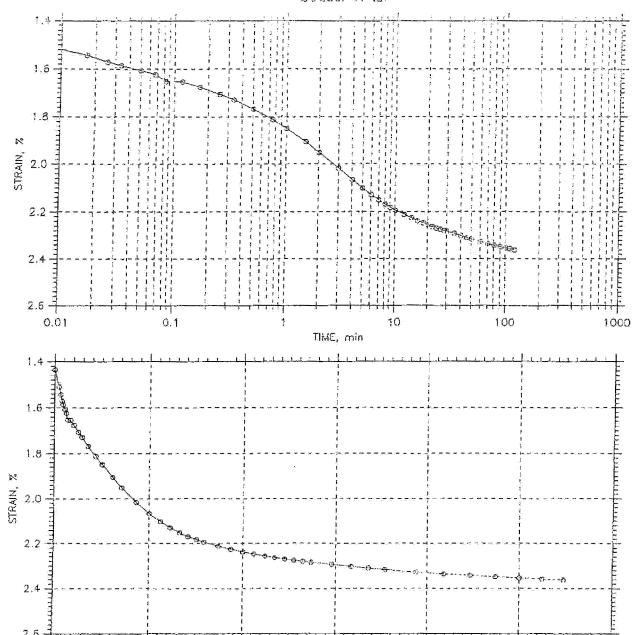
	Project: No. 064006	Location: Windham, ME	Project No.: GTX-7278		
	Boring No.: B-114	Tested By: md	Checked By: jdt		
anTactin	Sample No.:	Test Date: 02/06/07	Depth: 23-25 ft		
(press	Test No.: C-1	Somple Type: Tube	Elevation:		
	Description: Moist, gray clay with traces of sand				
	Remarks: System G				
			and the second s		

SQUARE ROOT of TIME, min

TIME CURVES

Constant Load Step: 4 of 12





	Remarks: System G	Remarks: System G			
	Description: Moist, gray cla	Description: Moist, gray clay with traces of sond			
express	Test No.: C-1	Sample Type: Tube	Elevation:		
GeoTestin	Sample No.:	Test Date: 02/06/07	0eplh: 23-25 ft		
	Boring No.: 8-114	Tested By: md	Checked By: jdt		
	Project: No. 064006	Location: Windham, ME	Project No.: GTX-7278		

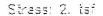
SQUARE ROOT of TIME, min

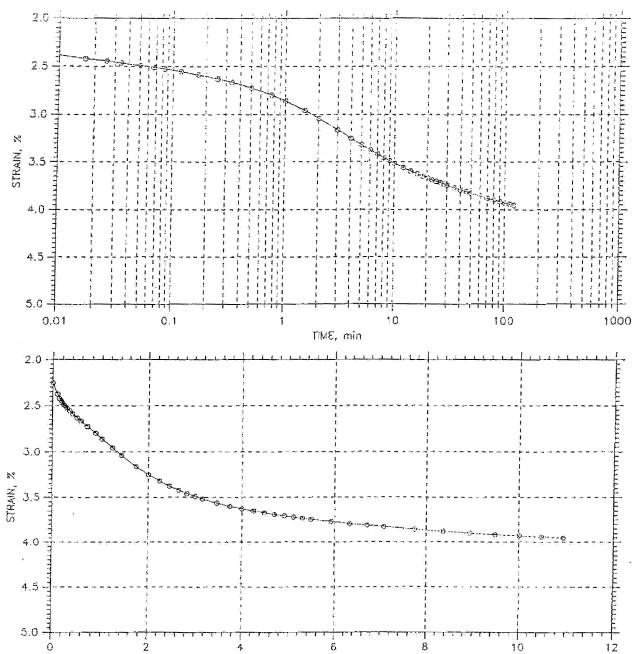
12

10

TIME CURVES

Constant Locd Step: 5 of 12





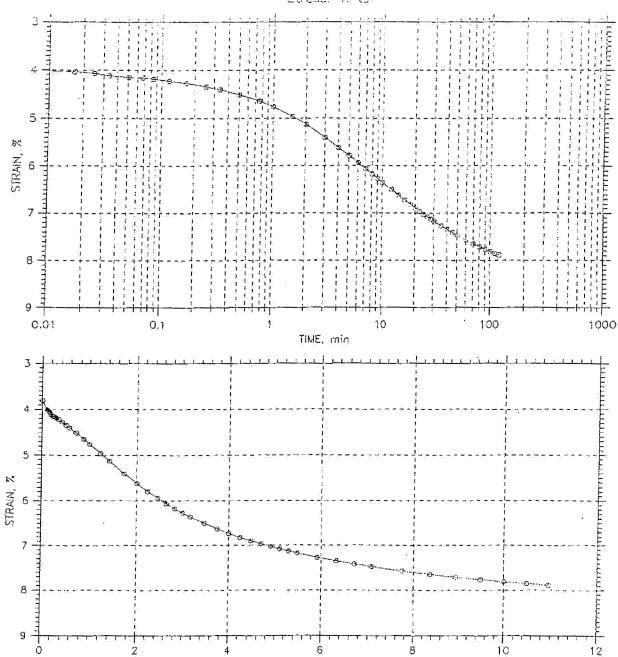
GeoTesting	Project: No. 064006	Location: Windhom, ME	Project No.: GTX-7278		
	Boring No.: B-114	Tested By: md	Checked By: jdt		
	Sample No.:	Test Oate: 02/06/07	Depth: 23-25 ft		
express	Test No.: C-1	Sample Type: Tube	Elevation:		
ł	Description: Moist, gray clay with traces of sand				
	Remarks: System G				

SQUARE ROOT of TIME, min

TIME CURVES

Constant Load Stept 6 of 12





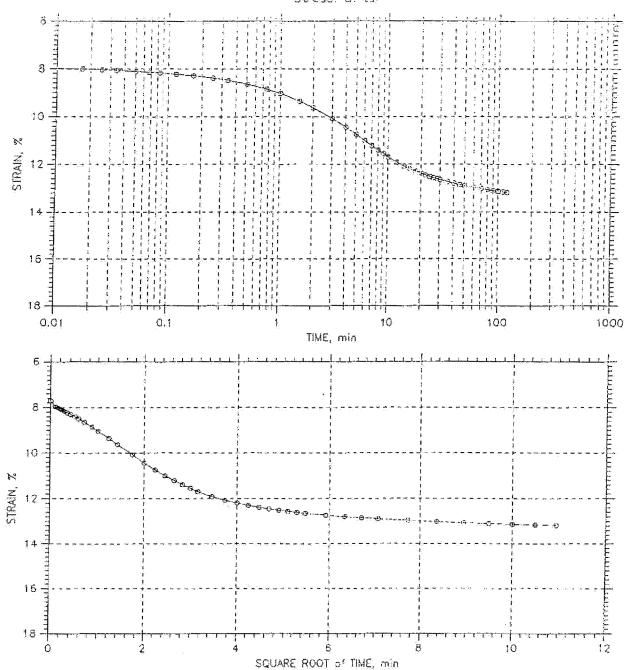
	Project: No. 064006	Location: Windhom, ME	Project No.: GTX-7278
GeoTesting express	Boring No.: 8-114	Tested By: md	Checked By: jdt
	Sample No.:	Test Date: 02/06/07	Depth: 23-25 ft
	Test No.: C-1	Sample Type: Tube	Elevation:
	Description: Moist, gray clay with traces of sand		
	Remorks: System G		

SQUARE ROOT of TIME, min

TIME CURVES

Constant Lead Stept 7 of 12

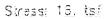
Stress: 8. taf

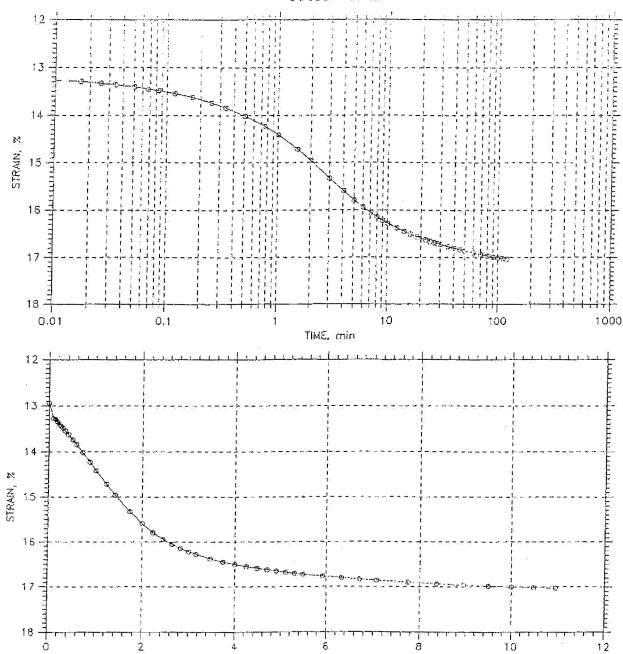


	Project: No. 064006	Location: Windhom, ME	Project No.: CTX-7278
GeoTesting express	Boring No.: 8-114	. Tested By: md	Checked By: jdt
	Sample No.:	Test Date: 02/06/07	Depth: 23-25 (t
	Test No.: C-1	Sample Type: Tube	Elevation:
	Description: Moist, gray clay with traces of sand		
	Remarks: System G		

TIME CURVES

Constant Load Step: 8 of 12



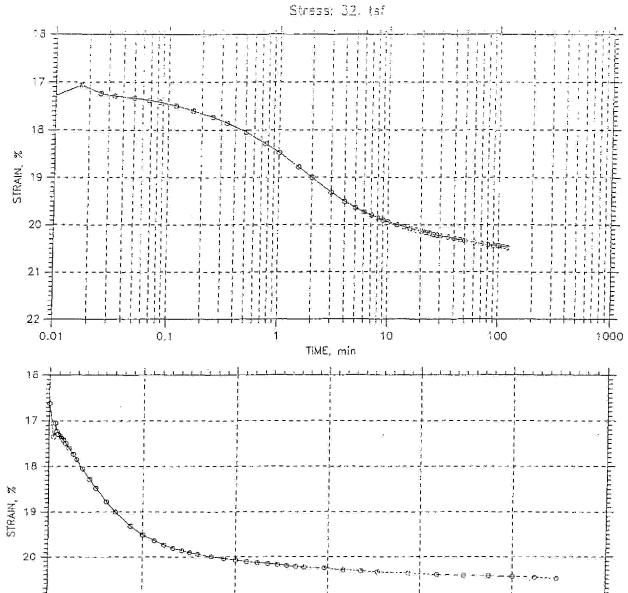


GeoTesting express	Project: No. 064006	Location: Windham, ME	Project No.: GTX-7278
	Boring No.: 8-114	Tested By: md	Checked By: jdt
	Somple No.:	Test Date: 02/06/07	Depth: 23-25 ft
	Test No.: C-1	Sample Type: Tube	Elevation:
	Description: Maist, gray clay with traces of sand		
	Remarks: System G		
3			

SQUARE ROOT of TIME, min

TIME CURVES

Constant Load Step: 9 of 12



	Remarks: System G		
	Description: Moist, gray clay with traces of send		
express	Test No.: C-1	Somple Type: Tube	Elevotion:
GeoTesting	Sample No.:	Test Dote: 02/06/07	Depth: 23-25 ft
	Boring No.: B-114	Tested By: md	Checked By: jdt
	Project: No. 064006	Location: Windham, ME	Project No.: GTX-7278

SQUARE ROOT of TIME, min

21

22

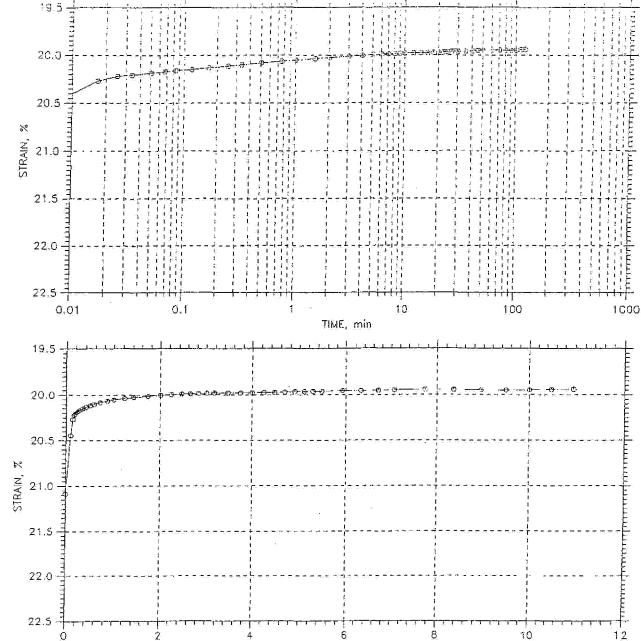
12

10

TIME CURVES

Constant Load Step: 19 of 12





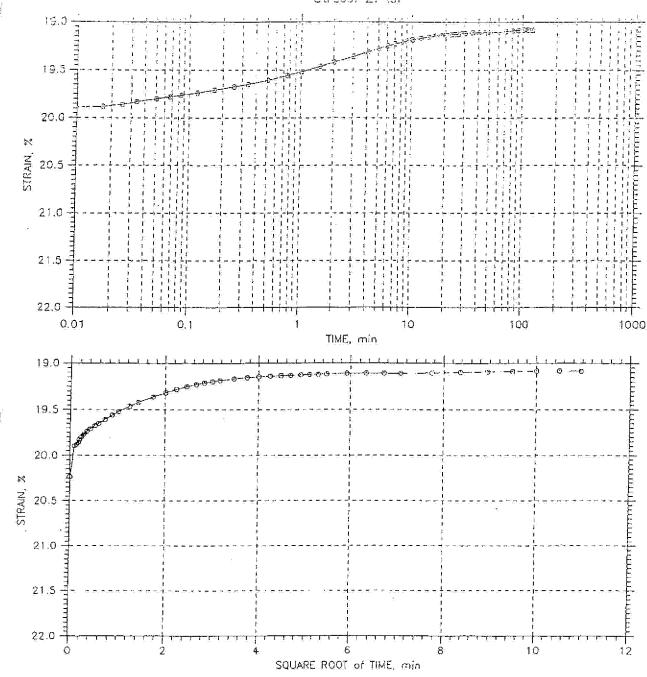
Geolesting	Remarks: System G		
	Description: Moist, gray clay with traces of sand		
	Test No.: C-1	Sample Type: Tube	Elevation:
	Sample No.:	Test Date: 02/06/07	Depth: 23-25 ft
	Boring No.: B-114	Tesled By: md	Checked By: jdf
	Project: No. 064006	Location: Windham, ME	Project No.: GTX-7278

SQUARE ROOT of TIME, min

TIME CURVES

Constant Load Step: 11 of 12

Stress: 2. tsf

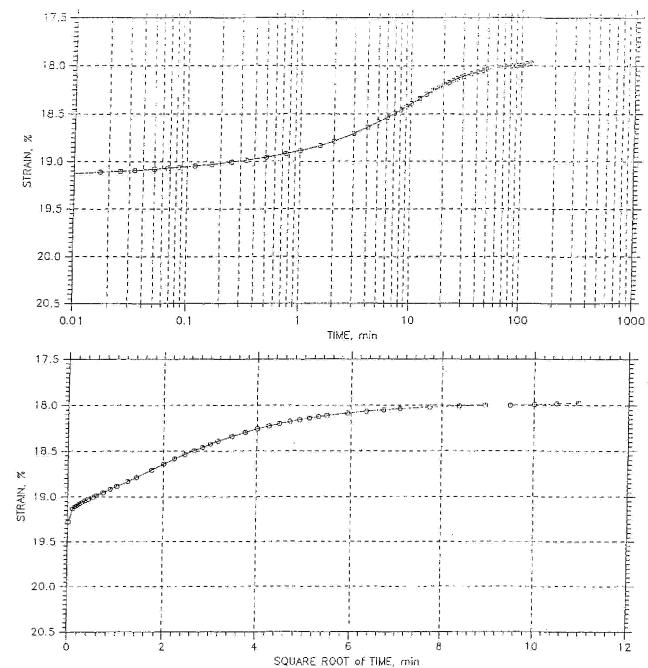


L C "	Remarks: System C	A widi ages of soun	
	Description: Moist, gray cley with traces of sond		
express	Test No.: C-1	Sample Type: Tube	Elevation:
GenTestino	Somple No.:	Test Date: 02/06/07	Depth: 23-25 ft
	Boring No.: 8-114	Tested By: md	Checked By: jdt
	Project: No. 064006	Location: Windham, ME	Project No.: GTX-7278

TIME CURVES

Constant Load Stept 12 of 12

Stress: C.5 ts?



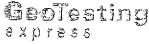
	Remarks: System G		
GeoTesting	Description: Maist, gray clay with traces of sand		
	Test No.: C-1	Somple Type: Tube	Elevation:
	Sample No.:	Test Date: 02/06/07	Depth: 23-25 ft
	Boring No.: 8-114	Tested By: md	Checked By: jdt
, ·	Project: No. 054005	Location: Windham, ME	Project No.: GTX-7278



GeoTesting Express, Inc. 1145 Massachusetts Avenue Boxborough, MA 01719 (978) 635-0424 Fax (978) 635-0266 \*\* 25/60 Kg

O4K eN4DNeE3S Company Name:	· Analysis/O
Address: Brown's White  Now Busy April, MA 0/950  Contact: Wowlers Strebo  Phone Number: 978-465-9877  Fax Number: 978-465-2986  Project Name: 064006  Project Location: Wowlerm, ME  Sample Container Sampling	Sample Type Container Type  1. Bucket 2. Geosynthetic 2. Bag 3. Rock 3. Jar 4. Concrete 4. Tube 5. Other 5. Roll  Sample Type  Comments  Comments
B/14 23-25' Size Type Date Time  8/14 23-25' 1/22 ///22	Soll X X Comments
0//9 d3-d3 122 mm	15
Wall State Tim	e: 10:00mm Date///07 Special Instructions Time: 1/100)
Relinquished By: Dat	
Relinquished By: Dal	Received By: Date:
SHIPPED VIA:	10 days

CHAIN OF JSTODY



and the in male same President

#### WARRANTY and LIABILITY

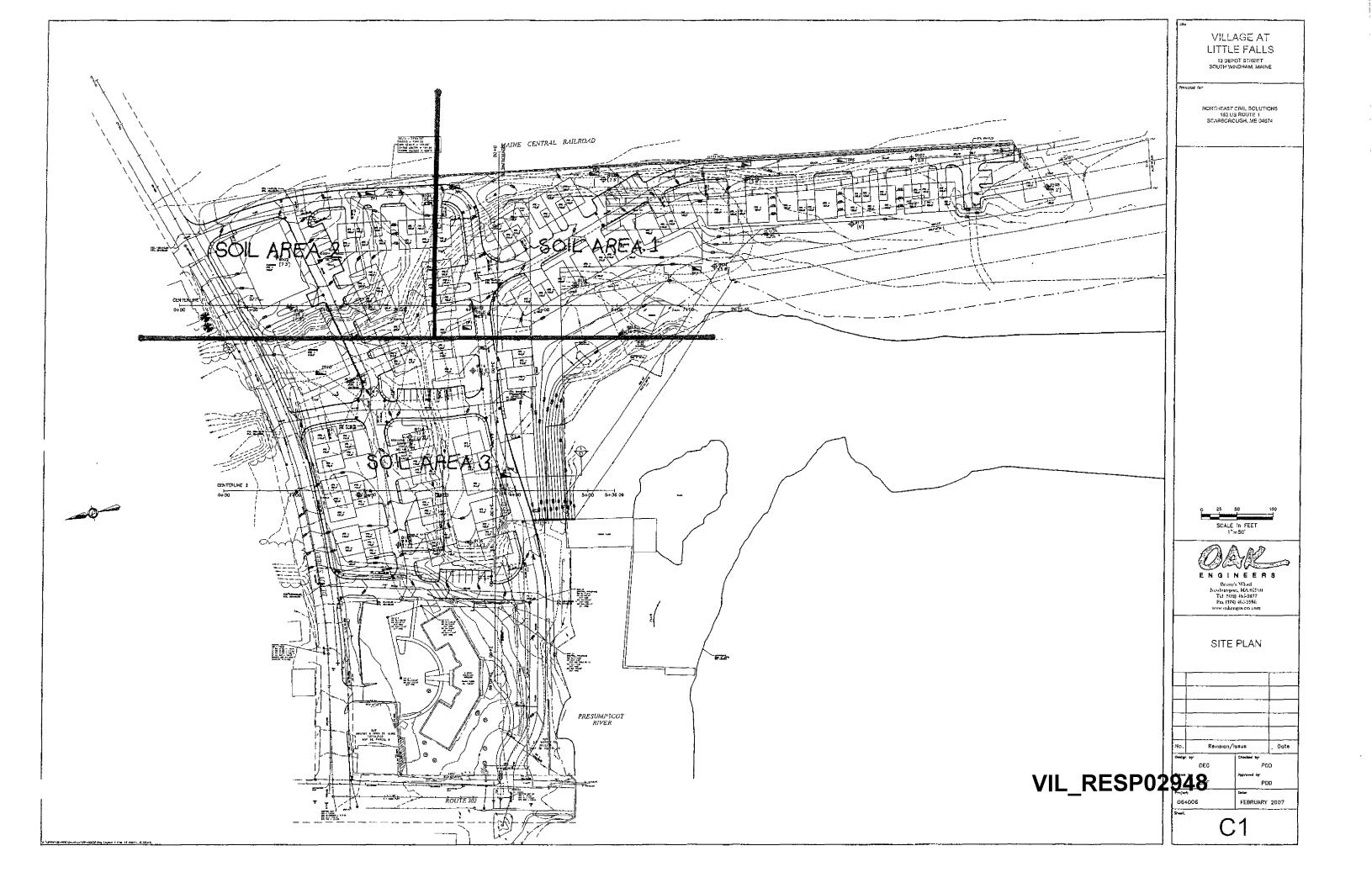
Geo Testing Express (GTX) warrants that all tests it performs are run in general accordance with the specified test procedures and accepted industry practice. GTX will correct or repeat any test that does not comply with this warranty. GTX has no specific knowledge as to conditioning, origin; sampling procedure or interded use of the material.

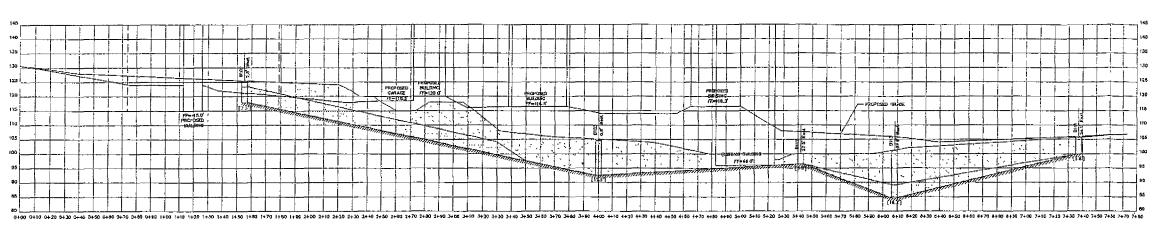
GTX may report engineering parameters that require us to interpret the test data. Such parameters are determined using accepted engineering procedures. However, GTX does not warrant that these parameters accurately reflect the drue engineering properties of the insitu material. Responsibility for interpretation and use of the test data and these parameters for engineering and/or construction purposes rests solely with the user and not with GTX or any of its employees.

GTX's liability will be limited to correcting or repeating a test which fails our warranty. GTX's liability for damages to the Purchaser of testing services for any cause whatsoever shall be limited to the amount GTX received for the testing services. GTX will not be hable for any damages, or for any lost benefits or other consequential damages resulting from the use of these test results, even if GTX has been advised of the possibility of such damages. GTX will not be responsible for any liability of the Purchaser to any third party.

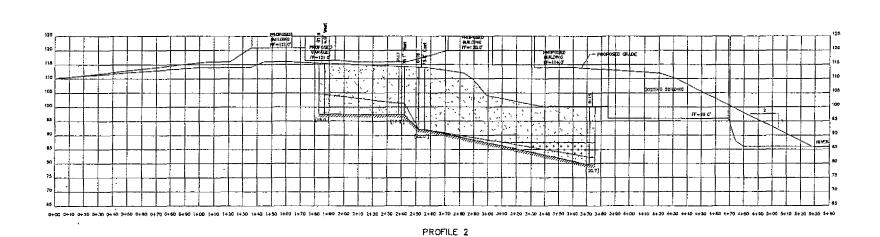
#### Commonly Used Symbols

A	Mark appropriate defendance for the state of		
B	pore pressure parameter for Δσ <sub>1</sub> – Δσ <sub>3</sub>	T	temperature
	pore pressure parameter for $\Delta\sigma_{\rm i}$	t.	time
CIU	isotropically consolidated undrained triaxial sheat test	U, UC	unconfined compression test
CR	compression ratio for one dimensional consolidation	UU, Q	unconsolidated undrained triaxial test
Ce	coefficient of curvature, $(D_{10})^2/(D_{10} \times D_{60})$	$U_3$	porc gas pressure
C <sub>u</sub>	coefficient of uniformity, Dec/Dec	u <sub>e</sub>	excess pore water pressure
C.	compression index for one dimensional consolidation	$\mathbf{u}_i \; \mathbf{u}_{\infty}$	pore water pressure
$C_{\alpha}$	coefficient of secondary compression	V	total volume
ಒ	coefficient of consolidation	$V_{\mathbf{z}}$	volume of gas
C.	cohesion intercept for total stresses	V.	volume of solids
c'	cohesion intercept for effective stresses	V <sub>r</sub>	volume of voids
D	diameter of specimen	٧	volume of water
Die	diameter at which 10% of soil is finer	V	initial volume
$D_{i,j}$	diameter at which 15% of soil is finer	v	velocity
$D_{30}$	diameter at which 30% of soil is finer	W	total weight
$D_{50}$	diameter at which 50% of soil is finer	₩,	weight of solids
- 10 m	diameter at which 60% of soil is finer	w.	weight of water
5	diameter at which 85% of soil is finer	w	water content
J.p.	displacement for 50% consolidation	We.	water content at consolidation
deo	displacement for 90% consolidation	We	final water content
$d_{100}$	displacement for 100% consolidation	<del>ν</del> /ι	liquid limit
E	Young's modulus	Wa	natural water content
e	yold ratio	₩p	plastic limit
e.	void ratio after consolidation		shrinkage limit
C <sub>o</sub>	initial void ratio	Won Wi	initial water content
G.	shear modulus	a	slope of qr versus pr
Ġ,	specific gravity of soil particles	α,	slope of qr yersus pr'
H	height of specimen	Yı	total unit weight
Pl	plasticity index	Υa	dry unit weigh!
i '	gradient	γ,	unit weight of solids
K.	lateral stress ratio for one dimensional strain	γw	unit weight of water
k	permeability	3	strain
Lt	Liquidity Index	Evol	Yolume strain
m <sub>v</sub>	coefficient of volume change	Eh. Ev	horizontal strain, vertical strain
n	porosity	щ	Poisson's ratio, also viscosity
Pl	plasticity index	ā	normal stress
P.	preconsolidation pressure	σ,	effective normal stress
p	$(\sigma_1 + \sigma_2)/2$ , $(\sigma_2 + \sigma_3)/2$	σε, σ',	consolidation stress in isotropic stress system
p.'	$(\sigma_1^2 + \sigma_1^2)/2$ , $(\sigma_2^2 + \sigma_1^2)/2$	σ <sub>6</sub> , σ' <sub>1</sub>	horizontal normal stress
p'.	p' at consolidation	$\sigma_{v_*} \sigma_{v_*}^*$	vertical normal stress
Q	quantity of low	σ, , ,	major principal stress
q	$(\sigma_1, \sigma_2)/2$	.σ₂	intermediate principal stress
gr.	g at failure	$\sigma_1$	minor principal stress
q., q	initial q	τ	shear stress
-de	q at consolidation		
.S	degree of saturation	φ	friction angle based on total stresses
.sc	shrinkage limit	φ'	friction angle based on effective stresses
	undrained shear strength	φ',	residual friction angle
S <sub>K</sub>	The second secon	φsi	φ for ultimate strength
T	time factor for consolidation		





PROFILE 1



LEGEND



APPARENT BEDROCK

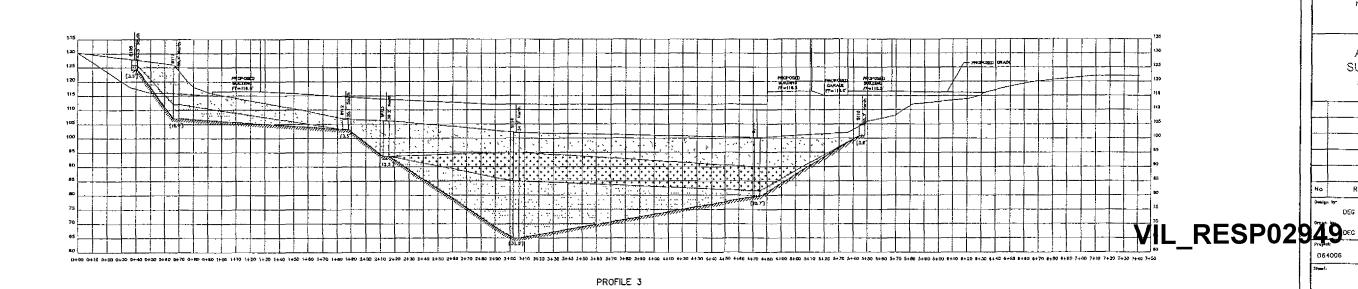


SILTY SAND/FILL



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APPARENT SUBSURFACE PROFILES

VERTICAL SCALE

HORIZONTAL SCALE

SCALE in FEET 1"=30"

ENGINEERS

VILLAGE AT LITTLE FALLS 13 DEPOT STREET SOUTH WINDHAM, MAINE

NORTHEAST CIVIL SOLUTIONS 153 US ROUTE 1 SCARBOROUGH ME ()4074

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Approved by PDD Profile 064006 FEBRUARY 2007

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#### EXHIBIT 2

#### **COVENANTS & EASEMENTS**

Attached, please find a description of the existing covenants, easements and burdens to the property. These easements are also shown on Sheet 3 of the attached plan set.

#### EASEMENT

KNOW ALL PERSONS BY THESE PRESENTS, THAT SOUTH WINDHAM HOUSING CORPORATION, a Maine non-profit corporation with a place of business in Portland, Maine ("Owner") for consideration paid, hereby grants to S. D. WARREN COMPANY, a corporation organized and existing under the laws of the Commonwealth of Pennsylvania, having corporate offices in the City of Boston, County of Suffolk and Commonwealth of Massachusetts ("Grantee"), a perpetual easement for the purposes described below, to benefit and run with the land of the Grantee as described in a deed recorded in Book 3612 at Page 25 and all land of the Grantee contiguous therewith, on and over property of Owner's in the Town of Windham, Cumberland County, Maine, bounded and described as follows:

A certain lot or parcel of land located on the easterly side of Route 202 in the Town of Windham, County of Cumberland, State of Maine, being more particularly bounded and described as follows:

STARTING at a #5 rebar with plastic cap stamped "NCS PLS 1314" at the southwesterly corner of lands N/F of Village at Little Falls, LLC, as recorded in Deed Book 23312, Page 286, Cumberland County Registry of Deeds (CCRD) and being the southeasterly corner of lands N/F of South Windham Housing Corporation as recorded in Deed Book 23312, Page 291, CCRD. Said rebar also being on the northerly line of lands N/F of S.D. Warren Co. as recorded in Deed Book 3612, Page 25, CCRD;

THENCE N 77°33'00" W along the northerly line of said S.D. Warren Co. land and the southerly line of said South Windham Housing Corporation land a distance of 155.64 feet to a point and being the TRUE POINT OF BEGINNING;

THENCE N 56°41'38" W through said South Windham Housing Co. land a distance of 37.61 feet to a point;

THENCE N 34°38'52" W through said South Windham Housing Co. land a distance of 48.07 feet to a point. Said point being on the easterly right-of-way line of Route 202 as described in a taking from Lumas, Inc. to MDOT as recorded in Deed Book 20705, Page 301 CCRD;

THENCE S 13°56'30" W along the easterly line of said MDOT/Route 202 land a distance of 46.13 feet to a point. Said point being on the northerly line of said lands of S.D. Warren Co.;

THENCE S 77°33'00" E along the northerly line of said S.D. Warren Co. land a distance of 71.56 feet to the POINT OF BEGINNING.

The above described easement contains 1311 square feet (0.03 acres) more or less, and the uses of the easement described below may be exercised on all or any portion of the easement area.

The above described easement is a portion of the land conveyed from Lumas, Inc. to South Windham Housing Corporation in a deed dated October 25, 2005 recorded in the Cumberland County Registry of Deeds in Book 23312, Page 291.

The easement granted herein is for ingress and egress by foot, vehicles and machinery, and for the installation, maintenance, repair and replacement of utility lines, and for the surfacing, resurfacing, repair and maintenance of any traveled way or ways in the easement area. Subject to the indemnity in favor of Owner set forth below, Owner covenants and agrees to maintain the traveled way or ways in sufficiently passable condition to allow Grantee convenient and ready access to its property with the vehicles and equipment customarily used in the conduct of its business, except for plowing of snow for which Grantee shall be responsible, and subject to the terms and conditions below. Should Owner fail to maintain the way within the easement area as aforesaid, then Grantee may, after written notice to Owner and Owner's failure to perform the required surfacing, resurfacing, maintenance or repair within 30 days, may perform such work, in which case Owner shall reimburse Grantee for the reasonable costs of such work within thirty days of receipt of Grantee's invoice for such work.

SUBJECT to an easement granted by South Windham Housing Corporation to the Portland Water District on even or near date herewith. By acceptance of this Easement, Grantee agrees that it will exercise its rights hereunder in such a manner as to not interfere with the proper exercise by the Portland Water District of its rights under said easement, and shall not exercise its rights hereunder in such a manner as to interfere with the Portland Water District's ability to comply with any restrictions or conditions imposed upon its exercise of its rights under said easement. Owner shall have no responsibility to plow the easement area.

Owner and Grantee shall indemnify, defend and hold harmless the other from and against all loss, cost or damage incurred by the indemnified party as a result of the activities of the indemnifying party, its contractors and agents, in the easement area or as a result of any claims by third parties against the indemnified party if said third parties are on the land or are affected by activities taking place on the land as a result of the exercise of the rights described herein by the indemnifying party.

Owner shall have no obligation to perform maintenance on such traveled way or ways as a result of any damage caused to the same by Grantee, Portland Water District or their respective employees, contractors or agents.

This easement is signed as a document	under seal.
Dated: February, 2007	
	SOUTH WINDHAM HOUSING CORPORATION
	By:

•	Print Name
	Notary Public/Attorney at Law
South Windham Housing Corporation, as afo	me the above-named Dana Totman, President of resaid, and acknowledged the foregoing instrument and the free act and deed of said South Windham
STATE OF MAINE COUNTY OF CUMBERLAND	, 2007

SWHC to SDW 2\_21\_07\_FINAL.dog 2/27/2007

#### EASEMENT

KNOW ALL PERSONS BY THESE PRESENTS, THAT S. D. WARREN COMPANY, a corporation organized and existing under the laws of the Commonwealth of Pennsylvania, having corporate offices in the City of Boston, County of Suffolk and Commonwealth of Massachusetts ("Owner"), for consideration paid, hereby grants to SOUTH WINDHAM HOUSING CORPORATION, a Maine non-profit corporation with a place of business in Portland, Maine ("Grantee"), a perpetual easement for the purposes described below, on and over property of Owner's in the Town of Windham, Cumberland County, Maine, bounded and described as follows:

A certain lot or parcel of land located on the easterly side of Route 202 in the Town of Windham, County of Cumberland, State of Maine, being more particularly bounded and described as follows:

BEGINNING at a #5 rebar with plastic cap stamped "NCS PLS 1314" at the southwesterly corner of lands now or formerly of Village at Little Falls, LLC, as recorded in Deed Book 23312, Page 286, Cumberland County Registry of Deeds (CCRD) and being the southeasterly corner of lands now or formerly of South Windham Housing Corporation as recorded in Deed Book 23312, Page 291, CCRD. Said rebar also being on the northerly line of lands now or formerly of S.D. Warren Co. as recorded in Deed Book 3612, Page 25, CCRD;

THENCE S 77°33'00" E along a northerly line of said S.D. Warren Co. land and the southerly line of said Village at Little Falls, LLC land a distance of 115.62 feet to a angle point;

THENCE S 12°27'00" W along an easterly line of said S.D. Warren Co. and a westerly line of said Village at Little Falls, LLC land a distance of 30.00 feet to a point;

THENCE N 77°33'00" W through said S.D. Warren Co. land a distance of 343 feet more or less to a point. Said point being on the easterly right-of-way line of Route 202 as described in a taking from Lumas, Inc. to MDOT as recorded in Deed Book 20705, Page 301 CCRD;

THENCE N 13°56'30" E along the easterly line of said MDOT/Route 202 land a distance of 30 feet more or less to a point. Said point being on the southerly line of said lands of South Windham Housing Corporation and on the northerly line of said lands of S.D. Warren Co.;

THENCE S 77°33'00" E along the northerly line of said S.D. Warren Co. land a distance of 227 feet more or less to the POINT OF BEGINNING.

The above described easement contains 10,306 square feet (0.24 acres) more or less.

The easement granted herein is for ingress and egress by foot, vehicles and machinery, for emergency purposes only, to two areas labeled "Proposed 20" Wide Fire Lane" as shown on a "Site & Utility Plan Little Falls Landing South Windham Housing Corp." dated August 29. 2005 revised to 12/15/05, drawn by Northeast Civil Solution as Project Number 25530.1. Said

easement is also granted for the installation, replacement, repair and maintenance of utilities. Owner shall perform sufficient maintenance of the easement area to allow for passage at any time. Should Owner fail to maintain the way within the easement area as aforesaid, then Grantee may, after written notice to Owner and Owner's failure to perform the required maintenance within 30 days, may perform such work, in which case Owner shall reimburse Grantee for the reasonable costs of such work within thirty days of receipt of Grantee's invoice for such work. In connection with its right to install, replace, repair and maintain utilities, Grantee shall provide, in each instance, prior written notice to Owner and, before signing any utility company contracts or easements that contemplate access to the property by utility company personnel, Grantee shall submit such contracts or easements to Owner for approval which said approval shall not be unreasonably denied or delayed. After any such utility-related work in the easement area, Grantee shall return the easement area to its original condition.

If Grantee is required by the Town of Windham to improve the surface of the easement area in order to comply with the Town's ordinances applicable to emergency access ways or fire lanes, Owner and Grantee agree to use good faith efforts to reach an agreement with respect to the performance and completion of any such required changes, provided, however, that Grantee shall be solely responsible for all costs required to construct or install the agreed upon improvements.

The Grantor and Grantee shall indemnify, defend and hold harmless the other from and against all loss, cost or damage incurred by the indemnified party as a result of the activities of the indemnifying party, its contractors and agents, in the easement area or as a result of any claims by third parties against the indemnified party if said third parties are on the land or are affected by activities taking place on the land as a result of the exercise of the rights described herein by the indemnifying party.

The above described easement is a portion of the land of Owner as recorded in Deed Book 3612, Page 25, Cumberland County Registry of Deeds. By acceptance of this deed Grantee acknowledges and agrees for itself, its successors and assigns, that it has no rights in the easement area other than those set forth herein, and in particular acknowledges and agrees that it has no additional rights as a result of the easement retained by Lawrence J. Keddy in the second page of his deed to the Grantor's predecessor in title recorded in Book 3612, Page 25 at the Cumberland County Registry of Deeds.

This easement is signed as a document under seal.

Dated: February, 2007	S. D. WARREN COMPANY	
	By:	
	Name:	
	Title	

COMMONWEALTH OF MASSACHUSETTS COUNTY OF SUFFOLK_	
PERSONALLY APPEARED before me of S. D. Warren instrument to be his/her free act and deed in his/l D. Warren Company.	Company, and acknowledged the foregoing
D. Trairon Company.	Notary Public/Attorney at Law
	Print Name
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#### EASEMENT

### KNOW ALL PERSONS BY THESE PRESENTS, THAT SOUTH

WINDHAM HOUSING CORPORATION, a Maine non-profit corporation with a place of business in Portland, Maine ("Owner") for consideration paid, hereby grants to the PORTLAND WATER DISTRICT, a public quasi-municipal Maine corporation with a place of business in Portland, Maine (the "District"), an easement, for the purposes described below, on and over property of Owner's in the Town of Windham, Cumberland County, Maine, bounded and described as follows:

A certain lot or parcel of land located on the easterly side of Route 202 in the Town of Windham, County of Cumberland, State of Maine, being more particularly bounded and described as follows:

STARTING at a #5 rebar with plastic cap stamped "NCS PLS 1314" at the southwesterly corner of lands N/F of Village at Little Falls, LLC, as recorded in Deed Book 23312, Page 286, Cumberland County Registry of Deeds (CCRD) and being the southeasterly corner of lands N/F of South Windham Housing Corporation as recorded in Deed Book 23312, Page 291, CCRD. Said rebar also being on the northerly line of lands N/F of S.D. Warren Co. as recorded in Deed Book 3612, Page 25, CCRD;

THENCE N 77°33'00" W along the northerly line of said S.D. Warren Co. and the southerly line of said South Windham Housing Corporation land a distance of 155.64 feet to a point and being the TRUE POINT OF BEGINNING;

THENCE N 56°41'38" W through said South Windham Housing Co. land a distance of 37.61 feet to a point;

THENCE N 34°38'52" W through said South Windham Housing Co. land a distance of 48.07 feet to a point. Said point being on the easterly right-of-way line of Route 202 as described in a taking from Lumas, Inc. to MDOT as recorded in Deed Book 20705, Page 301 CCRD;

THENCE S 13°56'30" W along the easterly line of said MDOT/Route 202 a distance of 46.13 feet to a point. Said point being on the northerly line of said lands of S.D. Warren Co.;

THENCE S 77°33'00" E along the northerly line of said S.D. Warren Co. land a distance of 71.56 feet to the POINT OF BEGINNING.

The above described easement contains 1311 square feet (0.03 acres) more or less. The above described easement is a portion of the land conveyed from Lumas, Inc. to South Windham

Housing Corporation in a deed dated October 25, 2005 recorded in the Cumberland County Registry of Deeds in Book 23312, Page 291.

The easement granted herein is for ingress and egress by foot, vehicles and machinery and for the installation, replacement, repair and maintenance of utilities, upon and subject to thefollowing terms and conditions.

The DISTRICT shall have the following permanent easement rights, to be exercised in each instance only after reasonable prior notice to Owner and to S.D. Warren Company in the easement area described above, and to be exercised in such a manner so as to allow Owner and S.D. Warren Company access at all times to the property described above and all of Owner's and S.D. Warren's property contiguous therewith, including maintaining the traveled way or ways in sufficiently passable condition to allow Owner and S.D. Warren Company convenient and ready access to said properties with the vehicles and equipment customarily used in the conduct of their respective businesses.

- 1. The right to install, maintain, replace and remove conduits or pipelines for conveying water, wastewater and/or storm water, with all necessary fixtures and appurtenances, including electric or other energized control lines; and
- 2. The right to make connections with the conduits or pipelines running from adjacent land to the easement area; and
- 3. The right to trim, cut down, and/or remove bushes, grass, crops, trees or any other vegetation, to such extent as is necessary for any of these purposes in the sole judgment of the District; and
- 4. The right to change the existing surface grade of the easement area as is reasonably necessary for any of these purposes; provided, however, that no such grade changes shall result in drainage of stormwater onto Owner's adjacent property, and subject to paragraph 6 below; and
- 5. The right to enter on the easement area at any and all times for any of these purposes.
- 6. After any work in the easement area, the District shall return the easement area to its original condition.

Owner reserves the use and enjoyment of the easement area for any purpose that does not interfere with the use of the easement area by the District for its own purposes; provided that none of the following improvements may be made by Owner in the easement area, without the written permission of the District:

- 1. No buildings or any other permanent structures are allowed, except pavement and utilities.
- 2. No earth shall be removed from the easement area.
- 3. No conduits, pipelines or facilities shall be installed within 5 feet of or above any conduit or pipeline installed by the District, except that pipelines and conduits may be installed if they cross

perpendicular to the District conduits and pipelines with a minimum vertical clearance of one foot.

The District by acceptance hereof acknowledges that the use of the easement area as a fire lane does not interfere with the District's use of the easement. The Owner and District shall indemnify, defend and hold harmless the other from and against all loss, cost or damage incurred by the indemnified party as a result of the activities of the indemnifying party, its contractors and agents, in the easement area or as a result of any claims by third parties against the indemnified party resulting if said third parties are on the land or are affected by activities taking place on the land as a result of the exercise of the rights described herein by the indemnifying party. Notwithstanding this obligation of indemnification, the District does not waive herein the immunities provided to it by the provisions of the Maine Tort Claims Act, 14 M.R.S. 8181 et seq.

SUBJECT to an ingress/egress easement granted to S. D. Warren Company on even or near date herewith.

This easement is signed as a document unde	er seal.
Dated:, 2007	SOUTH WINDHAM HOUSING CORPORATION
	By:
STATE OF MAINE COUNTY OF CUMBERLAND	, 2007
South Windham Housing Corporation, as af	me the above-named Dana Totman, President of oresaid, and acknowledged the foregoing instrument by and the free act and deed of said South Windham
	Notary Public/Attorney at Law
	Print Name

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#### EASEMENT DEED

S. D. WARREN COMPANY a corporation organized and existing under the laws of the Commonwealth of Pennsylvania, having corporate offices in the City of Boston, County of Suffolk and Commonwealth of Massachusetts ("Owner") for consideration paid, hereby grants releases to the PORTLAND WATER DISTRICT, a public quasi-municipal Maine corporation of Portland, Maine ("District"), with quit-elaim covenants an appurtenant easement on property located on the easterly side of Main Street in the Town of Windham, Cumberland County, Maine, the easement being described on Exhibit A attached to and made a part of this deed.

The DISTRICT shall have the following permanent easement rights, to be exercised in each instance only after reasonable prior notice to Owner in the easement area described above, and to be exercised in such a manner so as to allow Owner access at all times to the property described in Exhibit A and all of Owner's property contiguous therewith including maintaining the traveled way or ways in sufficiently passable condition to allow Owner convenient and ready access to said properties with the vehicles and equipment customarily used in the conduct of its business:

- 1. the right to install, maintain, replace and remove conduits or pipelines for conveying water, wastewater and/or stormwater, with all necessary fixtures and appurtenances, including electric or other energized control lines; and
- 2. the right to make connections with the conduits or pipelines running from adjacent land to the easement area; and
- 3. the right to trim, cut down, and/or remove bushes, grass, crops, trees or any other vegetation, to such extent as is necessary for any of these purposes in the sole judgment of the DISTRICT; and
- 4. the right to enter on the easement area at any and all times for any of these purposes.

OWNER reserves the use and enjoyment of the easement area for any purpose that does not interfere with the use of the easement area by the DISTRICT for its own purposes as described and limited above; provided that none of the following improvements may be made by OWNER in the easement area, without the written permission of the DISTRICT:

- 1. No buildings or any other permanent structures are allowed, except pavement and utilities.
- 2. No earth shall be removed, no fill may be added, and no other change shall be made to the surface grade of the easement area.
- 3. No conduits, pipelines or facilities shall be installed within 5 feet of or above any conduit or pipeline installed by the DISTRICT, except that pipelines and conduits may be installed if they cross perpendicular to the DISTRICT conduits and pipelines with a minimum vertical clearance of one foot.
- The right to enter on the easement area at any and all times for any of these purposes.

  VIL\_RESP02961

This easement deed	l is signed as a docume	nt under seal.	
Dated:	, <del>2006</del> <u>2007</u>	S. D. Warren Company	
		Name: Title:	<del>-</del> .
Commonwealth of County of Suffolk	Massachusetts		, <del>2006</del> 2007
signature on this do S. D. Warren Comp	cument was his free ac	ly appeared before me and acknow t and deed in said capacity and the f	
	#.	Notary Public/Atto	mey at Law
		Print Name	
SDW to PWD 1-4; 2007.doc 2:27/20072/24/30071-11-2007			
SDW to PWD 1-4-2007.doc 2/27/2007			

#### BOUNDARY AND EASEMENT AGREEMENT

AGREEMENT made by and between S. D. WARREN COMPANY, a Pennsylvania corporation (doing business as "Sappi Fine Paper North America") ("S. D. Warren" or "Sappi") with a mailing address of 225 Franklin Street, Boston, Massachusetts 02110; and HRC-VILLAGE AT LITTLE FALLS, LLC, a Maine limited liability company with a mailing address of 2 Market Street, Portland, Maine 04101, (referred to herein as "Developer" or "VLF, LLC").

WHEREAS S. D. Warren is the owner of the Little Falls dam and real property located on the Presumpscott River easterly of Route 202 and southerly of Depot Street in the Town of Windham, Maine, reference being made to the third parcel described a deed from Mallison Corporation to S. D. Warren dated October 18, 1974 and recorded in the Cumberland County Registry of Deeds in Book 3612, Page 30 and to a deed from Lawrence Keddy to Scott Paper Company dated November 18, 1974 in Book 3612 at Page 25 (collectively the "S. D. Warren Premises");

WHEREAS Developer is the owner of certain abutting property in said Windham consisting of properties described in deeds to the Developer recorded in said Registry of Deeds in Book 20753 at Page 21, and in Book 24617, Page 165 (the "Developer Premises").

WHEREAS a Site Plan of the S. D. Warren Premises and the Developer Premises has been prepared by Northeast Civil Consultants Inc. dated October 20, 2006 entitled "Site Plan Concept — Village at Little Falls" as recorded or to be recorded in said Registry of Deeds, a reduced copy of which is attached hereto as **Exhibit A** (the "Plan").

WHEREAS the parties desire to clarify the location of their common boundary line, and to restate easements and rights which may cross said common boundary line.

NOW THEREFORE, in consideration of one dollar and other valuable consideration, including the payment set forth in Paragraph 3, below, the parties hereby agree as follows:

1. <u>Common Boundary Line Location</u>. The boundary line between the S D Warren Premises and the Developer Premises shall be described as follows:

"BEGINNING at a #5 rebar with plastic cap stamped "NCS PLS 1314" at the southwesterly corner of lands N/F of Village at Little Falls, LLC, as recorded in Deed Book 23312, Page 286, Cumberland County Registry of Deeds (CCRD) and being the southeasterly corner of lands N/F of South Windham Housing Corporation as recorded in said Registry of Deeds in Book 23312, Page 291. Said rebar also being on the northerly line of lands N/F of S.D. Warren as recorded in said Registry of Deeds in Book 3612, Page 25, CCRD;

THENCE S 77° 33' 00" E along a northerly line of said S.D. Warren and the southerly line of said Village at Little Falls, LLC as shown on the plan a distance of 115.62 feet to a angle point;

THENCE S 12° 27' 00" W along an easterly line of said S.D. Warren and a westerly line of said Village at Little Falls, LLC as shown on the plan a distance of 58.74 feet to a point;

THENCE S 77° 50' 00" E 34.72 feet to an angle point,

THENCE S 42° 33' 00" E 389.0 feet to an angle point,

THENCE S 03° 58' 30" W to a 4" x 4" concrete monument.

All bearings refer to grid north as shown on a Plan of Land entitled "Subdivision Plan Little Falls Landing, Route 202 Windham, Maine, South Windham Housing Corporation." dated August 4, 2005 drawn by Northeast Civil Solutions Project 24430.1, Drawing 25530.1-SUB.DWG."

(the "Boundary Line").

- S. D. Warren hereby Releases to the Developer, its successors and assigns, all land and all other rights, easements, appurtenances of every kind and description located northerly and easterly of the Boundary Line within the Developer Premises, including without limitation electric transmission line, substation maintenance and substation access rights.
- 2. S. D. Warren Depot Street Access Easement over Developer Premises. The easements and rights which S. D. Warren holds over the Developer Premises for access to and from Depot Street, originally established in instruments recorded in Book 1759, Page 348, in Book 1787, Page 353, referenced in Book 4162, Page 277 or otherwise existing (the "Depot Street Access Easement") are hereby amended and restated as follows:
  - "VLF, LLC hereby grants S. D. Warren, its successors and assigns a perpetual easement 25 feet in width for ingress and egress on foot and by motor vehicle, including without limitation, ATV's and electric power line and tower maintenance trucks, running in an easterly direction from Depot Street to land of S. D. Warren, being depicted and labeled as "25' Access Easement to benefit Sappi" on Exhibit A and being more particularly bounded and described in the attached **Exhibit B**.
  - VLF, LLC shall have the rights (i) to relocate the foregoing easement on the Developer Premises at its expense so long as reasonably equivalent access is maintained and (ii) to temporarily obstruct such easement for construction purposes.
- S. D. Warren hereby releases to VLF, LLC any easements for access to Depot Street it holds which are inconsistent with the foregoing grant of a replacement easement.
- 3. <u>Electric Line and Substation Easements</u>. In consideration of the mutual obligations set forth herein below, S. D. Warren hereby releases to VLF, LLC the portion of the pole, electric transmission line and substation easements located on the Developer Land as set forth in the Easement Deed from Cumberland Securities Corp. to Central Maine Power Company dated October 6, 1944 and recorded in said Registry of Deeds in Book 1787, Page

348 and reserved in the deed "Indenture" from Cumberland Securities Corp. to Windham Fibers dated July 25, 1945 as recorded in Book 1787, Page 353 (see page 357).

- a. <u>Price</u>, VLF, LLC agrees to pay the sum of fifty thousand (\$ 50,000.00) to S.D. Warren on or before the date of recording of a memorandum of this agreement or release deed pursuant to this paragraph and the execution and delivery of the easements attached as Exhibits D through G; however, any recorded memorandum of this agreement or any deeds or other instruments recorded pursuant to this agreement shall not disclose the amount of this payment.
- b. Road Improvement. VLF, LLC hereby agrees to improve the Depot Street Access Easement (as it may be relocated under Section 2) running from Depot Street to a gate in the fence line at the Sappi boundary, as said fence line and gate are depicted on Exhibit I attached hereto, with a road bed consisting of a minimum of a 12" aggregate sub-base, a minimum of a 6" gravel base for a minimum of 12 feet in width with supporting ditches, culverts and/or other storm water control devices sufficient to keep the roadways properly drained and protected from washout. Such improvements shall be made contemporaneously with the construction of the first construction of roadways in the Village at Little Falls subdivision.
- c. Fence. Contemporaneously with the construction required by subparagraph b, VLF, LLC will install and maintain an 6-foot-tall metal fence substantially in accordance with the design attached as Exhibit H or suitable equivalent approved by S. D. Warren along the portion of the common boundary line extending North 03° 58' 30' E a distance of 606.62 feet from a 4" x 4" monument marking the southerly point of the common boundary line between S.D. Warren and VLF, LLC, thence North 42° 33'00" W to the edge of the water, to include a lockable gate at a location and of a type approved by S.D. Warren, all as depicted on the fence location plan attached hereto as Exhibit I. Said installation shall be done in a manner designed to minimize or eliminate the ability of residents of the Village at Little Falls properties and theirs guests and invitees to reach S. D. Warren's property through, over, or under the fence, and in particular to minimize or eliminate their ability to reach the improvements thereon associated with the production and transmission of electric power, from the Village at Little Falls property.
- d. S.D. Warren hereby grants to VLF, LLC a temporary construction easement, including the right to cut and remove vegetation if required for construction, and the right to move pole guys or supports after consultation with S.D. Warren, to allow VLF, LLC and its contractors to enter upon S.D. Warren land for purposes of constructing the roadbed and fence described in sub-paragraphs b and c, above.
- e. Contemporaneously with the issuance of a certificate of occupancy for any improvement on the Village at Little Falls property, and continuously thereafter, VLF, LLC will provide S. D. Warren with proof of insurance in a mutually agreeable amount no less than \$1,000,000, naming S.D. Warren as a co-insured, against loss arising from damage to any of the equipment or improvements on S. D. Warren property associated with the production and transmission of electric power caused by residents of the Village at Little Falls portion of the Developer Premises or their guests or invitees; and VLF, LLC will indemnify S. D. Warren for any such loss not covered by the insurance required by this Paragraph.

- 4. Other Existing Dam, Flowage and Access Easements and Rights. Nothing contained in this Agreement shall interfere with S. D. Warren's existing riparian rights, dam and the flowage rights and the related rights to connect to and maintain and repair (without obligation to do so) with respect to the Main Building, the Extension thereof and the Wheel House, foundations, walls and penstocks set forth in The Cumberland Securities Corporation—Windham Fibers Indenture in Book 1787 at pages 355-356, but S. D. Warren acknowledges that Developer's proposed demolition of the portion of such existing buildings located above elevation 110 does not interfere with S. D. Warren's rights and easements.
- 5. Restated 30-Foot Emergency Access Easement. S D Warren hereby grants to VLF, LLC an easement over a thirty-foot wide strip of land with a total area of 10,306 square feet more particularly described in Exhibit C attached hereto and made a part hereof, for ingress and egress by foot, vehicles and machinery, for emergency purposes only, running from Route 202. VLF, LLC agrees for itself its successors and assigns, to deal with its property and interior roadways located on the properties of VLF, LLC in a manner that will discourage use of the roadways and emergency access easement by VLF, LLC's employees, buyers and tenants and by members of the general public, for regular access to the VLF, LLC site from Route 202, or for access to the nearby dam area of S. D. Warren, including without limitation, the construction and maintenance of "no trespassing emergency use only signs" and traffic calming devices of a type, style and construction quality approved by the Fire Department of the Town of Windham in the two locations indicated on Sheet 1 of 2 of a certain Plan of Land entitled "Exhibit C Contract Zone Plan (Site) Route 202 Windham, Maine, Village at Little Falls, LLC & South Windham Housing Corp." dated May 11, 2005 drawn by Northeast Civil Solutions.

S D Warren further hereby grants to VLF, LLC and agrees to provide public utility companies designated by VLF, LLC an easement for the installation, replacement, repair and maintenance of utilities in said 30 foot wide easement area. S. D. Warren shall perform sufficient maintenance of the easement area to allow for passage at any time. In connection with its right to install, replace, repair and maintain utilities, VLF, LLC shall provide, in each instance, prior written notice to S. D. Warren and, before signing any utility company contracts or easements that contemplate access to the property by utility company personnel, VLF, LLC shall submit such contracts or easements to S. D. Warren for approval which said approval shall not be unreasonably denied or delayed. After any such utility-related work in the easement area, VLF, LLC or the benefited utility companies shall restore the easement area t and with a compacted base that will support a fire truck, as applicable all in accordance with applicable ordinances and Contract Zone of the Town of Windham.

Each party shall indemnify, defend and hold harmless the other from and against all loss, cost or damage incurred by the indemnified party as a result of the activities of the indemnifying party, its contractors and agents, in the easement area or as a result of any claims by third parties against the indemnified party if said third parties are on the land or are affected by activities taking place on the land as a result of the exercise of the rights described herein by the indemnifying party. This indemnity shall not apply to successors in interest who are mortgagees or secured parties-in-possession but shall apply to any purchaser from such mortgagee or secured party.

The above described easement is a portion of the land of S. D. Warren described in a deed recorded in said Registry of Deeds in Book 3612, Page 25. Developer acknowledges and agrees for itself, its successors and assigns, that it has no rights in the easement area other than those amended and restated rights set forth herein, and in particular acknowledges and agrees that it has no additional rights as a result of the easement retained by Lawrence J. Keddy in the second page of his deed to S. D. Warren's predecessor in title recorded in Book 3612, Page 25 at the Cumberland County Registry of Deeds which are inconsistent with the foregoing easements.

The parties acknowledge that said easement area is to be used in common with the parties by South Windham Housing Corporation and the Portland Water District whose rights are to be defined substantially in accordance in certain easement deeds, attached hereto as Exhibits D through G. The parties agree that the rights and obligations contained in this agreement shall be exercised in such a manner as to not interfere with the uses described in said easement deeds except as required for utility installation and maintenance as described herein.

6. General. The parties agree that this Agreement shall be liberally construed so as to permanently establish the titles of each party to their respective parcels of land located northerly and southerly of the Boundary Line, free from any easements or rights of way held by the other party, but nothing contained herein shall impair any inherent rights to the surface or subsurface support of each parcel by the abutting parcel.

The easements and rights set forth herein shall run with the land and be binding upon the parties thereto and their respective successors and assigns. VLF, LLC shall be released from responsibility for the obligations of VLF, LLC hereunder upon either i) the transfer of title to the roadways and fence line areas that are the subject of this agreement to an incorporated homeowners' association or similar entity which said transfer shall be made subject to the terms of this agreement; or ii) upon the incorporation of a homeowners association that is subject to the provisions of the Maine Condominium Act to administer the improvements to be constructed on the VLF, LLC property and its commencement of operations following the issuance of a certificate of occupancy for any such improvements, and the related transfer of fractional ownership interests in said roadways and fence line areas to the condominium unit owners, which said association and said unit owners shall become responsible for the obligations of VLF, LLC hereunder. In the event that there is a pending dispute regarding the obligations hereunder at the time of such transfer of title or such incorporation and fractional interests transfer, then VLF, LLC shall remain jointly liable with the entity, or association and unit owners, until such pending dispute is resolved.

Witness our hands and seals as of _	<u>, <del>200</del>62007</u> .
	S. D. WARREN COMPANY
	Ву;

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		HRC	-VILLAGE AT LITTLE	FALLS, LLC	
		Bv:			
Witness			, its		
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			Attorney at Law		
State of Mair County of	ne	, SS	anife American personal and approximately and a second	, <del>2006</del> 2007	ŀ
capacity and	onally appeared bei acknowledged the i d liability company	foregoing to be his	named	in her said ree act and deed	
			Attorney at Law		
List of Exhib	its:				
Exhibit A	prepared by North		ses and the Developer Pren ants Inc. dated October 20, e Falls"		
Exhibit B	"25" Access Easer	nent to benefit Sap	pi"		
Exhibit C	30 Foot Emergen	cy Access Easemer	nt to VLF, LLC		

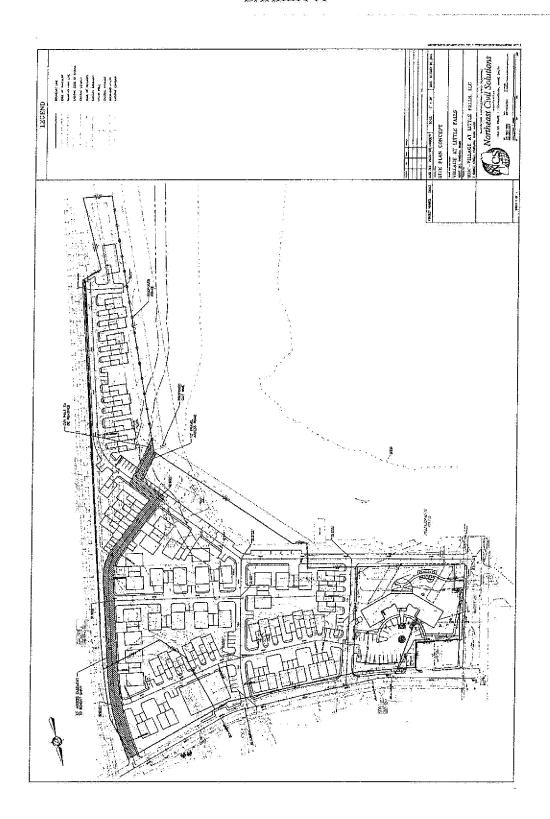
Exhibit D	Easement	SWHC to	PWD.
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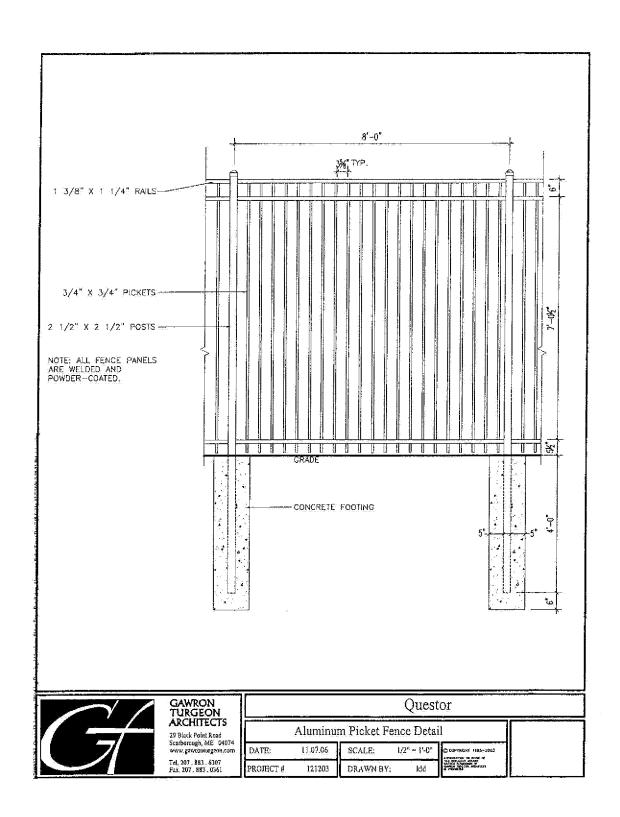
Exhibit E	Easem	ent SWHC to	Sappi
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Exhibit I Fence Location Plan

061218 1792 rs Agmt - SD Warren Village at Little Falls LRC 12-20-2006,doc 2/27/2007 10:08 AM2/27/2007 8:37:00 AM

# EXHIIBIT A





#### COMMUNITY FACILITIES AND UTILITIES

In conjunction with the proposed development, the applicant will be contributing funds and providing an easement for the construction of a new sewer pump station. The pump station will be owned and operated by the Portland Water District. This new pump station will replace two existing pump stations servicing the surrounding neighborhood.

Furthermore, new sidewalks will be constructed within the public right of way along Depot Street. These sidewalks enhance the accessibility of pedestrian traffic for the abutting neighborhoods and will complement the "village" style goal of the community.

#### DESCRIPTION OF PROJECT

The proposed Village at Little Falls Development consists of 85 new residential condominium units with associated paved streets, landscaping, driveways, utilities, and stormwater management infrastructure. The project will include two 12-unit apartment buildings, nine duplexes, nine porch style units, 66 townhouse units, and a single-family residence. These condominiums will be marketed with a price range of \$200,000 to \$300,000.

The 8.03-acre property is located in Windham, Maine at the corner of Route 202 and Depot Street, and has approximately 370 feet of frontage on the Presumpscot River. The property is shown as Parcels 6 and 7 on Tax Map 38. A Contract Zone was approved by the Town of Windham for the development of this project.

Currently, an old mill building (in disrepair) occupies the site. The abandoned mill has a negative impact on the environment, public safety, and the visual quality of the neighborhood. Currently, the foundation wall of the mill borders the Presumpscot River. Once the Village at Little Falls project is approved, the mill building will be removed and the banks of the Presumpcot River will be restored to its natural state. The applicant has received a "Voluntary Response Action Program" (VRAP) permit from the Maine Department of Environmental Protection for the site clean up effort.

A network of private access roads off of Depot Street will service the development. In addition, an "emergency vehicles only" drive will provide emergency access from Route 202 to the property. A public sidewalk will be constructed along Depot Street in the public right of way. The sidewalk will enhance the accessibility of pedestrian traffic for the abutting neighborhoods and will complement the "village" style goal of the community.

Please refer to the attached planset for utility layout and details. Public water and sanitary sewer will service the site. Electric, telephone, and natural gas utilities will be serviced underground. Storm water run-off will be collected via a catchbasin system and be treated through a filtration system prior to discharge.

Furthermore, an easement across a portion of the property will be granted to the Portland Water District for the construction and operation of a sewer pump station, gravity and sewer force mains, and water mains. The pump station will be owned and operated by the Portland Water District and will replace two existing pump stations servicing the surrounding neighborhood.

## CLUSTER DEVELOPMENT

The proposed project does not qualify as a "cluster" development.

O

## RIGHT, TITLE OR INTEREST

The applicant currently owns the land for the proposed development. The property is described in the following deeds:

- Book 20753 Page 21: Deed from Joseph Kittrell to HRC Village at Little Falls, LLC.
- Book 24617 Page 165: Deed from Village at Little Falls, LLC to HRC Village at Little Falls, LLC.

#### WARRANTY DEED

Price:3

JOSEPH KITTRELL, of Durham, Maine, for consideration paid, grants to HRC – VILLAGE AT LITTLE FALLS, LLC, a Maine limited liability company with a mailing address c/o Renee L. Lewis, Manager, 2 Market Street, Portland, Maine 04102, with Warranty Covenants, the following property located in Windham, County of Cumberland, State of Maine, described as follows:

#### SEE ATTACHED EXHIBIT A

Reference is made to the Warranty Deed from Merrill T. Laskey and Carmela P. Laskey to Joseph Kittrell dated September 6, 2001 and recorded in the Cumberland County Registry of Deeds in Book 16811, Page 99.

Witness our hands and seal this 5th day of April, 2006.

Signed, Sealed and Delivered

in the presence of

State of Maine County of Cumberland Joseph Kittrell

April 5, 2006

Then personally appeared the above pained Joseph Kittrell and acknowledged the foregoing instrument to be his free act and deed.

Notary Public/Attorney at Law

printed name of notary or attorney

A certain lot or parcel of land with the improvements thereon, situated in South Windham, Town of Windham, County of Cumberland and State of Maine, more particularly described as follows:

Situated on the Southeasterly side of what is now known as Depot Street and bounded Northwesterly by said Depot Street; bounded Southwesterly and Southeasterly by land formerly of Sebago Wood Board Company, and Northeasterly by land now or formerly owned by Maine Central Railroad Company.

Received
Recorded Resister of Deeds
Apr 07,2006 12:36:24P
Cumberland County
John B Obrien

#### DEED IN LIEU OF FORECLOSURE

KNOW ALL PERSONS BY THESE PRESENTS, that VILLAGE AT LITTLE FALLS, LLC, a Maine limited liability company having its principal place of business in the City of Portland, County of Cumberland and State of Maine, in consideration of One Dollar (\$1.00) and other valuable consideration, paid by HRC – VILLAGE AT LITTLE FALLS, LLC, a Maine limited liability company whose mailing address is 25 Pearl Street, Portland, Maine 04101, the receipt whereof does hereby acknowledge, does hereby quitclaim with covenant to HRC-Village at Little Falls, LLC, its successors and assigns, a certain lot or parcel of land with buildings thereon, situated in the Town of Windham, County of Cumberland, and State of Maine, and located at 7-9 Depot Road, Windham, Maine; further described on the attached Exhibit A.

The purpose of this Deed is to convey the above-described property to HRC-Village at Little Falls, LLC in lieu of foreclosure of a certain Mortgage, Security Agreement, Lease Assignment and Financing Statement from Village at Little Falls, LLC to Pioneer Capital Corporation dated November 3, 2004 and recorded in the Cumberland County Registry of Deeds in Book 22051, Page 4.

This Deed is made subject to the above-referenced Mortgage and said Mortgage shall survive this transfer and remains in place. This conveyance shall not act to merge the transferee's interest in the above-referenced real estate with the said Mortgage.

IN WITNESS WHEREOF, the said Village at Little Falls, LLC has caused this instrument to be signed and sealed by its Sole Member, Pioneer Capital Corporation, by Kenneth Ray, duly authorized, as of the 30<sup>th</sup> day of November, 2006.

Signed and Delivered	VILLAGE AT LITTLE FALLS, LLC
In the Presence of:	by Pioneer Capital Corporation, Sole Member
	1/4/10
	By Centh of They
Witness	Kenneth Ray
	Its President
·	

STATE OF MAINE Cumberland, ss.

Navember 30 ,2006

Then personally appeared the above-named Kenneth Ray, President of Pioneer Capital Corporation, Sole Member of Village at Little Falls, LLC and acknowledged the foregoing instrument to be his free act and deed and the free act and deed of said limited liability company.

Before me,

Notary Public

Printed Name: Jon Mare Society
My Commission Expires: 3/27/2013

PAMGCACLIENTSUBGEL-FRACHIRC-Village at Little Pulls DEED IN LIEU OF FORECLOSURE.doo

SEA

# EXHIBIT A LEGAL DESCRIPTION

#### LAND ON DEPOT ROAD, WINDHAM, MAINE

A certain lot or parcel of land in the Town of Windham, County of Cumberland, and State of Maine and being more particularly bounded and described as follows:

BEGINNING at the northeasterly corner of land N/F of George Wood, Book 16601, Page 217, Cumberland County Registry of Deeds (CCRD).

THENCE S 89° 07' 00" E along the southerly side of Depot Road 281.81 feet to a 1-inch iron pipe;

THENCE N 73° 29' 00" E along the southerly side of Depot Road 35.83 feet to a point. Said point being the northwesterly corner of land N/F of Joseph Kittrell as recorded in Book 16811, Page 99 (CCRD);

THENCE S 15° 32' 00" E along the westerly line of lands of said Kittrell 141.00 feet to a point;

THENCE S 41° 27' 00" E along the southwesterly line of land of said Kittrell 72:00 feet to an 1-inch iron rod;

THENCE N 75° 49' 00" E along the southerly line of land of said Kittrell 148.08 feet to a 1-inch iron pipe. Said iron pipe being the on the westerly right-of-way line of land owned by Maine Central Railroad;

THENCE southerly along said westerly right-of-way line of Maine Central Railroad being a curve to the right 101.02 feet to a point. Said curve has a radius of 1881.86', Chord Length of 101.01', and a Chord Bearing of S 08° 51' 14" W;

THENCE S 10° 23' 30" W along said westerly right-of-way line of said Maine Central Railroad 812.42 feet to a point;

Thence S 73° 03' 30" W along said westerly right-of-way line of said Maine Central Railroad 50.00 feet to a iron rod;

THENCE S 00° 40' 40" E along said westerly right-of-way line of said Maine Central Railroad 172.46 feet to a 4"x 4" concrete monument. Said point being a northeasterly corner of lands N/F of S.D. Warren Company as recorded in Book 3612, Page 25 CCRD;

THENCE N 79° 36' 30" W along a northeasterly line of said land of S.D. Warren Company 67.13 feet to a 4: x 4: concrete monument;

THENCE N 03° 58' 30" E along a easterly line of said land of S.D. Warren Company 606.62 feet to a 4" x 4" concrete monument;

THENCE N 42° 33' 00" W along a northeasterly line of said land of S.D. Warren Company 389.60 feet to a point;

THENCE N 77° 50' 00" W along northeasterly line of said land of S. D. Warren Company 34.72 feet. Said point being easterly of the S.D. Warren Co. power plant;

THENCE N 12° 27' 00" E along a easterly line of said land of S.D. Warren Company 58.74 feet to a drill hole;

THENCE N 77° 33' 00" W along northerly line of said land of S.D. Warren Company 99.6 feet to a point. Said point being the southeasterly corner of the remaining land of Lumas, Inc. as recorded in Book 18046, Page 32 CCRD. Said remaining lands of Lumas are proposed to be conveyed to Avesta Corporation;

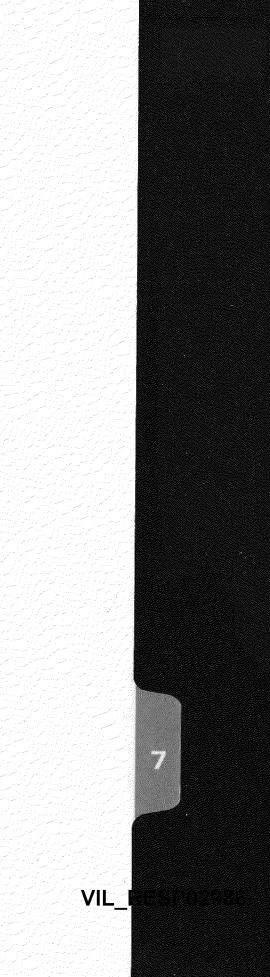
THENCE N 15° 46' 30" E along said land of Lumas 192.79 feet to a 6" x 6" granite monument. Said point being the southeasterly corner of land of said Wood;

THENCE N 15° 46' 30" E along the easterly line of said Wood 59.97 feet to the POINT OF BEGINNING.

The basis of bearing for the above described parcel is 1969 Magnetic North.

The above described premises are shown on Plan entitled "Existing Conditions Plan of Keddy Mill" by Northeast Civil Solutions, dated November 6, 2003, recorded in said Registry of Deeds in Plan Book 204, Page 78.

Received
Recorded Resister of Deeds
Dec 01:2006 12:40:20P
Cunterland Counts
John 8 GBrien



#### **CORPORATE STATUS**

Attached, please find the applicant's Certificate of Good Standing from the Department of the Secretary of State Bureau of Corporations, Elections and Commissions.



# Department of the Secretary of State Bureau of Corporations, Elections and Commissions

Corporate Name Search

# **Information Summary**

Subscriber activity report

This record contains information from the CEC database and is accurate as of: Tue Feb 13 2007 10:21:14. Please print or save for your records.

Legal Name

Charter Number

Filing Type

Status

HRC-VILLAGE AT

LITTLE FALLS, LLC

20062784DC

LIMITED LIABILITY

COMPANY (DOMESTIC)

GOOD STANDING

Filing Date

**Expiration Date** 

Jurisdiction

03/15/2006

N/A

**MAINE** 

Other Names

(A=Assumed ; F=Former)

NONE

Clerk/Registered Agent

FRANK K.N. CHOWDRY P.O. BOX 4510 PORTLAND, ME 04112

Obtain a Certified Copy of this record for an additional \$5.00 fee

Back to previous screen

New Search

Click on a link to obtain additional information.

List of Filings

View list of filings

Obtain additional information:

Additional Addresses

Plain Copy

Certified copy

Certificate of Existence (more info)

Short Form without Long Form with

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amendments

amendments

(\$30.00)

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VIL\_RESP02988

You will need Adobe Acrobat version 3.0 or higher in order to view PDF files. If you encounter problems, visit the <u>troubleshooting page</u>.



If you encounter technical difficulties while using these services, please contact the <u>Webmaster</u>. If you are unable to find the information you need through the resources provided on this web site, please contact the Bureau's Reporting and Information Section at 207-624-7752 or <u>e-mail</u> or visit our <u>Feedback</u> page.

© Department of the Secretary of State

# SITE PLAN PRE- APPLICATION

# VILLAGE AT LITTLE FALLS

Route 202 Tax Map 38, Parcels 6&7 Windham, Maine

Prepared For:
HRC – Village at Little Falls, LLC
2 Market Street
Portland, Maine 04101

March 2007

29522



Prepared by: Northeast Civil Solutions, Inc. 153 U.S. Route 1 Scarborough, ME 04074

VIL\_RESP02991

# TOWN OF WINDHAM, MAINE SITE PLAN APPLICATION FORM - Preapplication/Sketch Plan

And the second s

(Ordinance Section 140-38 A-C)

The preapplication/sketch plan application shall include fifteen (15) copies of each plan, map, or drawing, and any related information, which shall be printed or reproduced on paper.

		Check when cor	mpleted
		Applicant	Staff
Name of Applicant: HRC - Village at Little Falls, LLC. c/o Steve Etz	zel	X	
Mailing Address: 2 Market Street, Portland, Maine 04101		X	
Phone: 207-772-7219		X	
FAX: 207-772-7011		X	
Email: setzel@questorco.com		X	
Name of Project" Village at Little Falls		X	
Street Address: Route 202, Windham, Maine		X	
Proposed Use: Residential Condominiums		X	
Amendment to previously approved site plan? YesNo X	<del>-</del>	X	
Total acreage of parcel(s): 8.03 ac		X	
Zone (check all that apply)		X	
Resource Protection X General Shoreland Developm	ent		I
Limited Residential X Stream Protection			
Aquifer Protection Overlay Industrial Park Overlay		ļ	!
Farm Residential			
Light Density Residential RM Medium Residential			1
Commercial II Commercial II			l
Commercial III Industrial			l
Enterprise Development X Contract; Date Approved 6/0	1/05		
Conditional Use Yes No X		X	
Special Exception Yes No X		X	
The Town will correspond with only one contact person/agent for the project. Please provide the requested information regarding the conperson/agent.			
Contact person/agent: Northeast Civil Solutions, Inc. c/o Lee Allen, I	PE	X	- in Manual Toler
Mailing Address: 153 US Route One, Scarborough, Maine 04074		X	
Phone: 207-883-1000		X	<del></del>
Cell: 207-210-7726		X	
FAX: 207-883-1001		X	
Email: lee.allen@northeastcivilsolutions.com		X	

Approved	VIL_	RESP02992
k awwaled	Mise Pian Presentiagrica Statch Elan	_

I certify that I received and read the PLANNING BOARD APPLICATION PROCEDURES AND REQUIREMENTS and that all the information in this application form and accompanying materials is true and accurate to the best of my knowledge.		
Signature of Applicant (If signed by applicant's agent, provide written documentation of authority to act on behalf of applicant.)	X	
Print or type name and title of signer Lee Allen, P.E. Project Manager	X	
Date Prepared March 2, 2007	X	

## Site Plan Preapplication/Sketch Plan EXHIBIT CHECKLIST

#### Please mark each exhibit in the application as follows:

EXHIBIT	1	Project Description
EXHIBIT	2	Covenants and Easements
EXHIBIT	3	Access to the Property
<b>EXHIBIT</b>	4	Soils
<b>EXHIBIT</b>	5	Right, Title, or Interest
EXHIBIT	6	Corporate or Partnership Status
EXHIBIT	7	Community Facilities and Utilities



### Northeast Civil Solutions

INCORPORATED

The state of the s

153 LLS Remark

Scaeborough

February 12, 2007

Majue 113071

To Whom It May Concern:

RE: Village at Little Falls, LLC

tel

207,883,1000

800,882,2227

fax

207.833.4004

I, Steve Etzel, on behalf of HRC-Village at Little Falls, LLC, authorize Northeast Civil Solutions, Inc. to sign any and all applications, plans, permit requests, and other paperwork in conjunction with obtaining final municipal and state approval for the Village at Little Falls residential development on Route 202 in Windham, Maine.

Steve Etzel Vic Pres

TES 1 4 2007

#### Site Plan Preapplication/Sketch Plan Application

A preapplication/sketch plan must be submitted and shall show, in simple sketch form, neatly done, the proposed layout of streets, and other features in relation to existing conditions. The preapplication/sketch plan shall include the information listed below:

Attach, as EXHIBIT 1, a written description of the overall project, including:  A. objectives and proposed uses of property  B. name, approval date, amendment date, and lot numbers of previously approved subdivision the site plan is in (if applicable)  C. Assessor's Office Tax Map(s) and Lot Number(s)  D. Existing land use  X. D. Existing land location on any property proposed for development. If access to the site is proposed on or off a private way or private road, attach, as EXHIBIT 3, a title opinion, meeting generally acceptable standards, proving right of access to the site.  D. Walks, curbs, gutters, culverts and other known and located underground structures, within and immediately adjacent to property  E. Existing utilities on or adjacent to the tract:  1. Location and size of all proposed and existing sewer and water mains.  If mains are not on or adjacent to the site, indicate the distance to and size of nearest mains.  2. Location of fire hydrants, electric, and telephone poles  3. Location of proposed and existing streetlights  4. Location of proposed and existing streetlights  4. Location of proposed and existing streetlights  5. Location of existing and proposed wells, septic systems, and  X. S. D. Existing and proposed wells, septic systems, and  X. S. D. Existing and proposed wells, septic systems, and  X. S		Check when completed	
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III. SITE PLAN DRAWINGS AND MAPS showing or accompanied by the following information:  A. Site Plan drawings  I. Number and date all sheets (Section 140-38.A.9.) and provide space for revision dates  2. Show all dimensions in feet and decimals, drawn to a scale of not more than one hundred (100) feet, preferably forty (40) feet, to the inch  B. Title Block  X. I. Identify plan as "Site Plan", "Amended" if applicable  Z. Name of the project (Section 140-38.A.8.)  X. Name(s) and address(es) of owner(s) of record and applicant (Section 140-38.A.9.)  4. Name(s) and address(es) of plan designer(s)  C. Plan References  I. North arrow (using Maine State Grid) (Section 140-38.A.9.)  Z. Graphic map scale (Section 140-38.A.9.)  D. Zoning Notes  I. Zoning district(s). If site is transected by a zone line or if zone line is within fifty (50) feet of the boundaries of the site, designation of that zone line.  Z. Total land area of property in number of square feet and in acres  E. Natural Resource Notes  Notes regarding utilities serving or proposed for the site  Z. Show the entire parcel(s), plus owner(s), land use, and zoning on and adjacent to property  G. Additional Information Notes  Any additional or general plan notes  H. Location, dimensions, and shape of existing and proposed buildings (Section 140-38.B.)  L. Location and dimensions of parking areas, loading and unloading acalities, driveways, fire lanes, and access points (Section 140-38.B.)  L. Location of existing covenants (Section 140-38.B.2.)  X. M. Location of temporary markers adequate to enable the Planning  X. Board to locate readily and appraise basic layout in the field (Section	II. SITE PLAN DRAWINGS AND MAPS showing or accompanied by he following information:  A. Site Plan drawings  Number and date all sheets (Section 140-38.A.9.) and provide space or revision dates  Show all dimensions in feet and decimals, drawn to a scale of not more than one hundred (100) feet, preferably forty (40) feet, to the inch  Title Block  Itle Block  Itle Block  Indentify plan as "Site Plan", "Amended" if applicable  Name of the project (Section 140-38.A.8.)  Name(s) and address(es) of owner(s) of record and applicant (Section 40-38.A.9.)  Name(s) and address(es) of plan designer(s)  North arrow (using Maine State Grid) (Section 140-38.A.9.)  Zoning Motes  Zoning Motes  Zoning district(s). If site is transected by a zone line or if zone line is yithin fifty (50) feet of the boundaries of the site, designation of that zone me.  Total land area of property in number of square feet and in acres  Notes regarding important or unique natural areas and site features.  Utility Notes  Notes regarding utilities serving or proposed for the site  Show the entire parcel(s), plus owner(s), land use, and zoning on and djacent to property  Additional Information Notes  Location, dimensions, and shape of existing and proposed buildings  Section 140-38.B.)  Location and dimensions of parking areas, loading and unloading acilities, driveways, fire lanes, and access points (Section 140-38.B.)  Location of existing covenants (Section 140-38.B.)  Location of temporary markers adequate to enable the Planning on and to locate readily and appraise basic layout in the field (Section Moreton of the planning on and to locate readily and appraise basic layout in the field (Section Moreton of the sound appraise basic layout in the field (Section Moreton of the sound appraise basic layout in the field (Section of the sound of the sound appraise basic layout in the field (Section of the sound of the sound of the sound of the sound appraise basic layout in the field (Section of the sound of the sound of the sound of the sound appraise b		Check when completed	
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	Check when completed	
	Applicant	Staff
IV. LOCATION MAP		1.5
A location map:	X	
A. drawn at scale of not more than four hundred (400) feet to the inch to		
show the relation of the proposed site plan to the adjacent properties and		
the general surrounding area within two hundred fifty (250) feet of		
property lines of the site (Section 140-38.C.)		
B existing subdivisions and tract lines (Section 140-38.C.)	X	
C. location, widths, and names of existing, filed, or proposed streets,	X	
casements, building lines, and alleys on-site and on adjacent properties		
D. names of adjoining property owners (Section 140-38.A.9.)	X	5. 25.5. 5. 15.
E. boundaries and designations of parks and other public spaces (Section	X	
140-38.C.)	X	
F. outline of site plan and its street system and an indication of the future		
probable street system for remainder of tract, if the site plan covers only		
part of applicant's holding (Section 140-38.C.).		
V. RIGHT, TITLE, OR INTEREST		
A. Name, mailing address, phone, and fax number (if available) of	X	
record owner of the site	" "	
Name HRC - Village at Little Falls	X	
Address: 2 Market Street, Portland, Maine 04101	X	
Phone: 207-772-7219	X	
FAX: 207-772-7011	X	
B. Attach, as EXHIBIT 5, evidence of applicant's right, title, or interest	X	
in the site including a complete copy of the:	A	
<ul> <li>applicant's deed, financial information may be deleted or</li> </ul>		
• applicant's right or interest in the site and the current owner's deed		
for the site (if not already in applicant's ownership)		
Cumberland County Register of Deeds Book 20753 Page 21	X	
and Deeds Book 24617 Page 165		
C. If applicant is not an individual, attach as EXHIBIT 6, evidence of	X	******
corporate or partnership status		
D. If applicant has interest in abutting property(s), identify by Tax	NA	
Office's Map and Lot number(s)		
Map Lot Map Lot		
Map Lot Map Lot		
VI. COMMUNITY FACILITIES AND UTILITIES		NEET.
Attach, as EXHIBIT 7, a written description of available community	X	
facilities and utilities		

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1	Project Description
2	Covenants & Easements
3	Access to the Property
4	Soils
5	Right Title or Interest
6	Corporate or Partnership Status
7	Community Facilities & Utilities
8	



VIL\_RESP02999

#### DESCRIPTION OF PROJECT

Please refer to Exhibit 4 of the Subdivision Plan Application for a description of the project.

#### **COVENANTS AND EASEMENTS**

Please refer to Exhibit 2 of the Subdivision Plan Application for a description of the existing covenants and easements burdening the property. These easements are also shown on Sheet 3 of the attached plan set.

#### ACCESS TO THE PROPERTY

A network of private access roads off of Depot Street will service the development. In addition, an "emergency vehicles only" drive will provide emergency access from Route 202 to the property. All access will be from public roads; therefore a title opinion for access rights off of a private road is not required.

#### SOILS

Please refer to Exhibit 1 of the Subdivision Plan Application for a description of the soils encountered onsite.

#### RIGHT TITLE AND INTEREST

Please refer to Exhibit 6 of the Subdivision Plan Application for documentation regarding the applicant's right title and interest in the property.

6

#### CORPORATE OR PARTNERSHIP STATUS

Please refer to Exhibit 7 of the Subdivision Plan Application for documentation regarding the applicant's corporate status.

#### **COMMUNITY FACILITIES AND UTILITIES**

Please refer to Exhibit 3 of the Subdivision Plan Application for a description of the community facilities and utilities associated with the project.

# APPENDIX A Contract Zoning Agreement

#### VILLAGE AT LITTLE FALLS

Route 202 Tax Map 38; Parcels 6&7 Windham, Maine

Prepared For:
HRC – Village at Little Falls, LLC
2 Market Street
Portland, Maine 04101

March 2007



Prepared by: Northeast Civil Solutions, Inc. 153 U.S. Route 1

#### VILLAGE AT LITTLE FALLS CONTRACT ZONING AGREEMENT

WHEREAS the Town is authorized to enter into contract zoning agreements pursuant to the Windham Shoreland Zoning Ordinance (Section 199-8(B)(2)), the provisions of the Windham Land Use Ordinance incorporated therein by reference (Section 140-5.1) and the provisions of 30-A M.R.S.A. Section 4352(8);

WHEREAS, VLF, LLC either owns or has entered into contracts to purchase parcels of real estate located on Route 202 and Depot Street Windham, Maine fronting on the Presumpscot River consisting of approximately 9.1 acres, generally being shown on the Town's Tax Map 38, Parcels 6, 7 and 8, and SWHCorp has separately entered into a contract to purchase a portion of Parcel 7, all of which property is shown on the attached Exhibit A (collectively hereinafter the "Property");

WHEREAS, the Property is currently located in the Shoreland Zone General Development District Zone ("GD Zone"), a portion of the Property having been heretofore rezoned from the Industrial Zone by action of the Town Council;

WHEREAS the poor condition and squalid appearance of the derelict industrial building, which is currently the most prominent portion of the Property, constitutes a blight preventing the development of the Property and is inhibiting the redevelopment of other properties in the South Windham Little Falls neighborhood;

WHEREAS, Owner proposes to construct an attractive mixed-income multi-unit residential development with attached and senior housing and apartments (the "Project");

WHEREAS the existing industrial uses are designated as being "marginally useful" under the Town's Comprehensive Plan, and the cost of demolition of the derelict industrial building has prevented the Project from moving forward;

WHEREAS the proposed residential use is in keeping with the historic close knit pattern of development in the South Windham Little Falls neighborhood and the abutters have expressed a strong desire to see the existing derelict building eliminated;

WHEREAS the Town's Comprehensive Plan cites the "potential to expand high density residential development" and historic settlement pattern which creates a "neighborhood feel" for the Little Falls neighborhood, but notes the lack of a critical mass of nearby residential development;

WHEREAS, the Project serves the goals of the Comprehensive Plan by using public sewer and water facilities;

WHEREAS, the roads within the development will remain private and maintenance and plowing will be the responsibility of the then owners of the Property, further minimizing the Town's costs;

WHEREAS, the rezoning provided in this Agreement, therefore, would be consistent with the Windham Comprehensive Plan; and

WHEREAS, the Town of Windham, by and through its Town Council, therefore, has determined that the said rezoning would be pursuant to and consistent with the Town's local growth program and Comprehensive Plan adopted pursuant to Title 30-A, Maine Revised Statutes, Chapter 187, Sub-part 6-A, and consistent with the existing and permitted uses within the GD Zone and has authorized the executive of this Contract Zoning Agreement.

NOW, THEREFORE, in consideration of the mutual promises made by each party to the other, the parties covenant and agree as follows:

- 1. Zoning Map Amendment. The Town hereby amends the Zoning Map of the Town of Windham, by adopting the zoning map change amendment shown on Exhibit B.
- 2. <u>Village at Little Falls Contract Zoning District</u>. The Town hereby creates a Village at Little Falls Contract Zoning District as defined herein which shall apply to the Property. For purposes of this Agreement, the Village at Little Falls Contract Zoning District means a residential development which may include multi-unit residences (apartment and condominiums), age restricted senior housing with traditional short blocks and interconnecting local streets, enhanced river views, and space and bulk standards consistent with traditional village design, all as further set forth in this Agreement.

The general schematic street layout, open space and distribution of uses in the Project shall conform to the Contract Zone Plan as hereinafter defined.

- 3. Permitted Densities, Uses and Dimensional Criteria.
- A. Density: The density of the Project shall be as follows:

Up to 24 apartment units located in one building on a separate Lot, reserved for residents with persons 55 years of age or older or households with at least one resident who is 55 years of age or older; and

Up to 85 residential units located in multi-unit buildings on a separate Lot, one of which buildings may contain up to 16 units and with the remaining buildings containing up to 4 units each, with no age restrictions for any of these 85 units.

The Project shall be connected to public sanitary sewer services.

All buildings shall have an automatic fire sprinkler system installed by the Owners, contractors or developers. The construction of the system shall meet the standards of the National Fire Protection Agency as determined by the Chief of the Town of Windham's Fire & Rescue Department. The location and number of hydrants within the Project shall be subject to the approval of the Fire Chief.

#### B. Uses. The permitted uses in the Project shall be:

One Family and Multi-Family Dwellings;

Elderly Housing;

Those Uses and Special Exceptions to the extent allowed and subject to the conditions and restrictions applicable to the underlying GD Zone as it may be amended, subject to such review which would otherwise be required if the Property were not subject to this Agreement, and excluding Industrial and Manufacturing uses;

Home Occupations, Residential Recreational Facilities and community building and Association office maintenance facilities;

Public Utilities Facilities; and

Accessory Uses.

#### C. Residential Dimensional, Parking and Design Criteria.

- Multi-Family Lot Size: No restriction on lot size or number of Dwelling Units per lot, but no more than 24 Dwelling Units per building for Elderly Housing and 16 dwelling units per building for other Multi-Family Dwellings shall be allowed.
- ii) Minimum front yard all buildings: 5 feet.
- iii) Minimum side yards all buildings: 5 feet.
- iv) Minimum rear yards all buildings: 5 feet.

- v) Presumpscot River setback and frontage: New Dwelling Units and accompanying improvements may be built in the locations as shown on Contract Zone Plan as they may be subsequently varied with Planning Board approval under Section 5, without need for Code Enforcement Officer approval under Section 199-12 of the Ordinance for the demolition of the existing nonconforming structures, the construction of the new structures shown on the Contract Zone Plan and change in use to multi-unit residential. In addition, existing utility lines located on the Property may be relocated closer to the river in order to lower their visual profile. Applicable minimum shore frontage per family shall not apply to the number of dwellings permitted under this Agreement.
- vi) Maximum structure, parking and non-vegetated surface coverage: 75% measured over the Project as a whole.
- vii) Height: 65 feet, measured from the mean "as completed" finished grade to the highest point on the roof for the 24 unit and the 16 unit buildings and 35 feet for all other buildings, such measurement otherwise to be in accordance with the Ordinance.
- viii) Notwithstanding the construction of multiple structures on a single lot, the compliance with dimensional requirements shall be calculated for each structure with respect to the lot as a whole and not with respect to each structure and dwelling separately.
- **D.** Parking. The dimensions of the parking spaces shall be a minimum of 9 feet by 18 feet but need not measure more than a minimum of 9 feet by 18 feet (except as otherwise required by law for handicapped parking). Parking spaces shall include garage spaces and spaces located in private driveways leading into garages, notwithstanding the otherwise applicable provisions of the Ordinance. For Elderly Housing, no more than one parking space per unit shall be required, and for a multifamily structure of more than three floors, no more than one and one-half parking spaces per unit shall be required.
- E. Streets, Roads and Sidewalks. All streets and roads within the Project shall remain private, and shall not be maintained by Town. The paved surface for private streets and internal travel aisles may range from 22-30 feet in width, exclusive of turn around and pull off parking areas, in accordance with the Contract Zone Plan for the Property. The required "right of way" for each street under the Subdivision Ordinance including the pavement, sidewalk and utility installation area need only be a minimum of 30 feet in total width, which need not be centered on the pavement, and may otherwise

have the locations and dimensions as shown on the Contract Zone Plan notwithstanding the otherwise applicable Ordinance requirements for such streets.

Each Owner shall construct the sidewalks as shown on the Contract Zone Plan, including without limitation the sidewalks running along the Town's abutting Depot Street right of way and the sidewalks located within the Project.

The then owners of the Property shall be responsible for the maintenance of the streets, roads and sidewalks. The portions of the Property in common ownership shall be considered a single lot notwithstanding their separation by private streets and roads.

Streets, roads and sidewalks providing access to a permitted Structure, parking and pedestrian walkways and other improvements shown on the Contract Zone Plan shall be permitted, even if located within 100 feet of the Presumpscot River. Use of existing drainage lines and structures shall be permitted.

4. Contract Zone Plan. The Property shall be generally developed and used in accordance with the Contract Zone Plan, reduced copies of which are attached hereto as Exhibit C as it may be further approved and amended from time to time pursuant to the provisions of the Windham Site Plan Ordinance and Subdivision Ordinance and this Agreement (the "Contract Zone Plan"). Notwithstanding any other provisions of the Ordinance, the physical layout, dimensions, setbacks, parking and proposed uses and improvements shown on Contract Zone Plan as they may be varied in accordance with Section 5 shall be permitted under the Ordinance.

#### 5. Status of Approvals/Amendments.

The Contract Zone Plan has received pre-application Site Plan - Subdivision review for the entire Property under the Town's Site Plan and Subdivision Ordinance. Any amendment which involves the following changes to the terms of this Agreement will require an amendment approved by the Town Council after a public hearing:

- i) any change in the permitted uses; and
- ii) any increase in the number of dwelling units beyond the maximum number permitted.

Except for the forgoing, any other changes and any subsequent site plan approvals or subsequent site plans and/or subdivision amendments need only be approved by either (i) the Planning Board after a public hearing in accordance with this Agreement, or (ii) for changes that would otherwise only require Code Enforcement Officer approval under the Ordinance, then the approval by such officer, all without need for further Town Council approval of such changes.

Following the approval of this Agreement, the Owner will then submit the detailed design, landscaping, traffic, and engineering plans and specifications for Planning Board review and approval in accordance with the otherwise applicable provisions of the Ordinance. Such review and approval shall include attention to the

specifics of sewer and utilities, streets (including turning radii), sidewalks, drainage facilities, hydrants, street lighting, storm water and drainage systems, recreational facilities or impact fees, river safety, snow removal and disposal areas, on street parking designations and restrictions, trash removal, and landscaping, but the improvements and uses contemplated under this Agreement as they may be varied in accordance with the foregoing shall be allowed.

#### 6. Infrastructure.

A. General. Within each lot it owns, each Owner shall construct or cause to be constructed sewer and utilities, streets, drainage facilities, esplanades, sidewalks, street lighting, drainage systems, and landscaping to the standards set forth in the final site plan/subdivision approval following the execution of this Agreement.

The streets shall remain private, subject to an easement for Town emergency access.

- B. Maintenance. The infrastructure located on the Property shall be maintained by its respective Owner.
- C. Sewer Pump Station. Owner shall grant to the Town of Windham or its designee title to land necessary for construction of an underground sewer pump station with accompanying easements for mains and access in a mutually agreed upon location to be coordinated with other proposed improvements.
- **D. Depot Street Storm Drain.** Owner shall grant to the Town of Windham an easement for an underground storm drain running from Depot Street towards the Presumpscot River, which easement shall be coordinated with the location of the proposed improvements.
- E. Depot Street Sidewalk. Owners shall construct a public sidewalk running along Depot Street in the public right of way area adjoining each portion of their Property.
- F. S D Warren Co. Easement and Fence. Owners shall permit emergency vehicle access over the Property over the 30 foot wide easement located on adjoining land of S.D. Warren Company (d/b/a "Sappi Fine Paper North America") originally reserved in a deed recorded in the Cumberland County Registry of Deeds in Book 2641, Page 44, which runs easterly from Route 202.

Owner shall construct and maintain a fence along the foregoing easement at the boundary of their Property with the land of S D Warren in order to prevent inappropriate public access to the dam area but shall construct an emergency access with traffic flow restriction devices approved by the Town Fire Chief on its Property permitting access by emergency vehicles through the fence.

7. Commencement/Phasing Schedule/Bonding. Unless extended by the Town,

a building permit shall be issued and the construction of the initial Phase shall commence within two (2) years after Owner's receipt of final land use approvals for the Property and shall complete the construction of the final Phase under this Agreement within fifteen (15) years of the date of receipt of such approvals.

An Owner need only post a performance guaranty in accordance with the Ordinance Section 140-39 (H) assuring the completion of "Required Improvements" for those Required Improvements to be constructed within each Phase or sub-Phase of the Property or which are required to be completed in conjunction with such Phase or sub-Phase under this Agreement.

8. Definitions. Note: Capitalized terms not otherwise defined herein shall have the meaning set forth in the Town of Windham Zoning Ordinance.

Agreement: This Contract Zoning Agreement entered into among the Owner and the Town.

Association: The nonprofit corporation which may be formed pursuant to the Maine Condominium Act to operate and administer a portion of the Property.

Contract Zone Plan: The plans entitled "Exhibit C - Contract Zone Plan" prepared by Northeast Civil Solutions dated May 11, 2005 consisting of sheets #1 (site) and #2 (phasing), the accompanying notes and related materials approved by the Town Council, reduced copies of which are attached hereto as Exhibit C, as they may be amended from time to time pursuant to the provisions of the Windham Site Plan Ordinance (Chapter 140-38) and Subdivision Regulations (the "Contract Zone Plan").

Lot:

The Lots composing individual portions of the Property as shown on Exhibit C, designed for separate subsequent Planning Board approval, development and use as set forth herein.

Multi-Family Dwelling: A building with two or more Dwelling Units, subject to the limitations on numbers of units, units per building, location and age restrictions set forth in this Agreement.

Ordinance: The Town of Windham Land Use, Shoreland Zoning and as applicable the Subdivision Ordinances as set forth in Chapters 140, 199 and 215 of the Town's Code of Ordinances.

Owner(s): Collectively, VLF, LLC and SWHCorp, and their respective successors and assigns.

Parking Space: See Subsection 3 (E) regarding modifications to the otherwise applicable definitional restrictions under the Ordinance.

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Phase:

Each portion of the Property designated on Exhibit C to be separately developed in stages substantially as shown on Exhibit C.

Planning Board: The Planning Board of the Town of Windham.

Property:

The real property located on Route 202 and Depot Street as

described in Exhibit A.

SWHCorp:

South Windham Housing Corporation, a Maine non-profit

corporation, also being an Owner.

Town:

The Town of Windham, a municipal corporation located in the

County of Cumberland and State of Maine.

Town Council: The Town Council of the Town.

VLF, LLC:

Village At Little Falls, LLC a Maine limited liability company,

being an Owner.

#### 9. General.

A. Owners shall record this Contract Zoning Agreement in the Cumberland County Registry of Deeds within 30 days after receipt of final land use approvals for the development on the Property. For purposes of identification only, the Town Manager shall sign the full size copies of the plans attached hereto as Exhibits C and D, marked with the legend:

"Exhibit [C or D, as applicable] to the Village at Little Falls Contract Zoning Agreement dated \_\_\_\_\_, 2005, subject to modification pursuant to said Agreement."

- B. The provisions of this Contract Zoning Agreement shall be deemed restrictions on the use of the Property, and this Contract Zoning Agreement may be amended by future written agreement between the Town of Windham and the Owner affected or its successors in interest without need for approval of any other party. In the event all or any portion of the Property is subjected to the Maine Condominium Act (33 M.R.S.A. Section 1601-101 et seq.), then the Association organized may act on behalf of all condominium owners.
- C. The provisions of this Contract Zoning shall operate as an "overlay" zone and all other requirements of the underlying Zoning District shall apply except as otherwise set forth herein.
- D. The restrictions, provisions and conditions of this Agreement are an essential part of the rezoning, shall run with the Property, shall bind Owners, their heirs, successors in interests and assigns of said Property or any part thereof, and shall inure to the benefit of and be enforceable by the Town of Windham.

- E. Except as expressly modified herein, the use and occupancy of the Property shall be governed by and comply with the provisions of the Land Use, Shoreland Zoning and Subdivision Ordinances of the Town of Windham (as applicable) and any applicable amendments thereto or replacement thereof, provided however that this Agreement and the Ordinance shall be interpreted so as to allow the improvements and uses shown on Exhibit C. The applicable provisions of the Town's Building Code Ordinances shall not be affected by this Agreement.
- F. Wherever possible, each provision of this Agreement shall be interpreted in such a manner as to be effective and valid under applicable law. However the provisions of this Agreement are severable, and if any one clause or provision hereof shall be held invalid or unenforceable in whole or in part in any jurisdiction, then such invalidity or unenforceability shall affect only such clause or provision, or part thereof, in such jurisdiction, and shall not in any manner affect such clause or provision in any other jurisdiction, or any other clause or provision of this Agreement in any jurisdiction.
- G. The captions in this Agreement are for convenience of reference only and shall not define or limit the provisions hereof.
- H. No waiver of any of the terms of this Agreement no extension thereof will be deemed to have occurred, or to be effective unless in writing signed by the parties. No course of dealing heretofore or hereafter between the parties, or any failure or delay on the part of any party in exercising any rights or remedies under this Agreement shall operate as a waiver or preclusion of the exercise of any rights or remedies under this Agreement.
- I. The Town shall have the power to enforce all conditions and restrictions of this Agreement, both through enforcement action pursuant to 30-A M.R.S.A. §4452 and through legal action for specific performance of this Agreement. In the event that an Owner or its heirs, successors or assigns fail to construct the Property in accordance with this Contract, or in the event of any other breach hereof, and such failure or breach continues for a period of thirty (30) days after written notice of such failure or breach cannot reasonably be remedied or cured within such thirty (30) day period, if such Owner, its heirs, successors or assigns, fails to commence to cure or remedy such failure or breach within said thirty (30) day period and thereafter fails to diligently prosecute such cure or remedy to completion in a reasonable time, then the Town may enforce the performance of this Agreement and recover the costs and expenses of performance from such Owner or its, heirs, successors or assigns violating this Agreement, which recovery may include the Town's reasonable attorney's fees and expenses.

Witness our hands and seals on June

TOWN OF WINDHAM

VILLAGE AT LITTLE FALLS, LLC

ewis, its Manager

SOUTH WINDHAM HOUSING CORPORATION

Witness

Copy of Survey Plan

Exhibit A Exhibit B

Amended Zoning Plan

Exhibit C

Reduced Copies of "Exhibit C - Contract Zone Plan" prepared by Northeast Civil Solutions dated May 11, 2004, consisting of 2 sheets

labeled "Phasing" and "Site."

Exhibit D

Reduced Copies of "Exhibit D - Proposed Elevations" prepared by Gawron Turgeon Architects consisting of 2 sheets.

Contract Zone Agmt Vill at Little Falls 5-24-05 clean.doc 5/25/2005

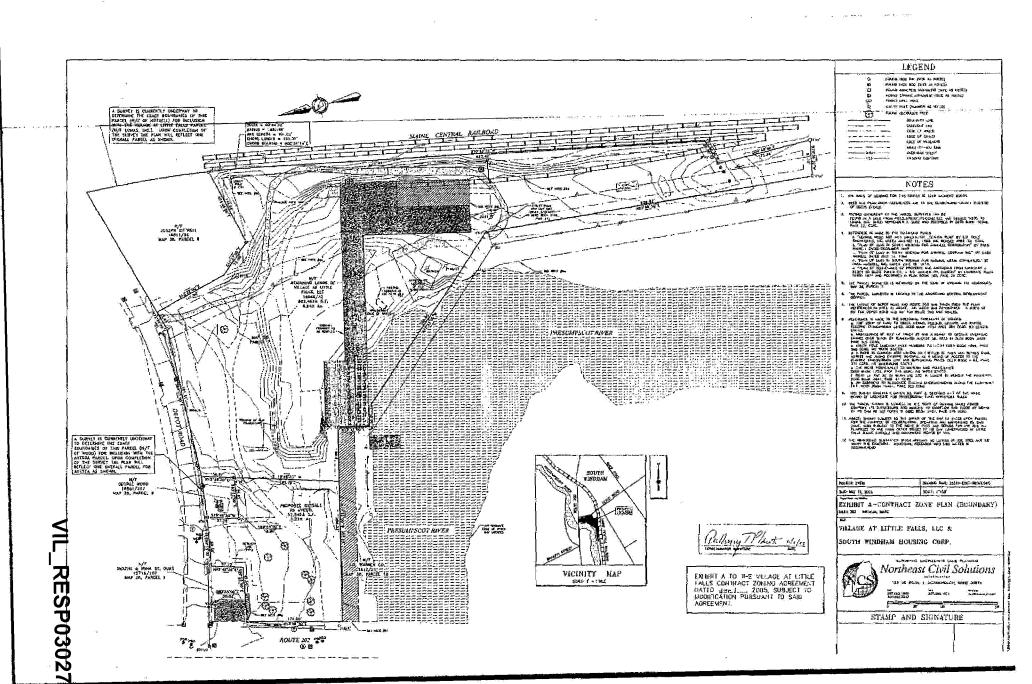
State of Maine Cumberland, ss

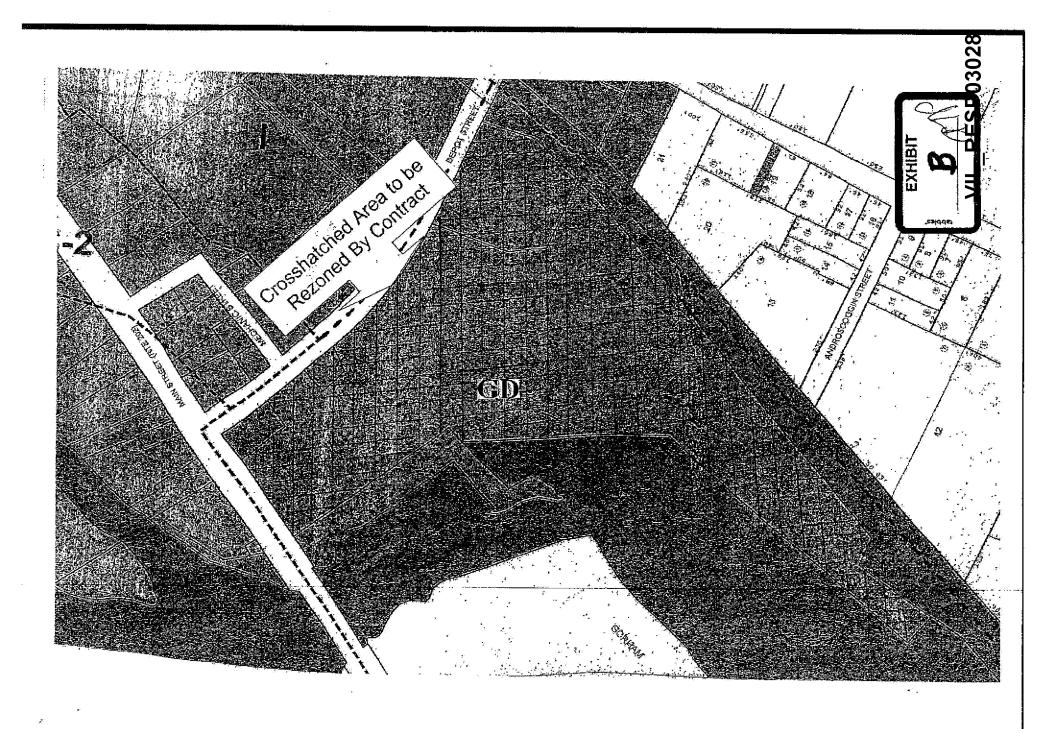
June 1, 2005

Then personally appeared before me the above named Anthony T. Plante in his said capacity and acknowledged the foregoing to be his free act and deed and the free act and deed of said town.

Attorney at Law

Name: Lawrence R. Clough

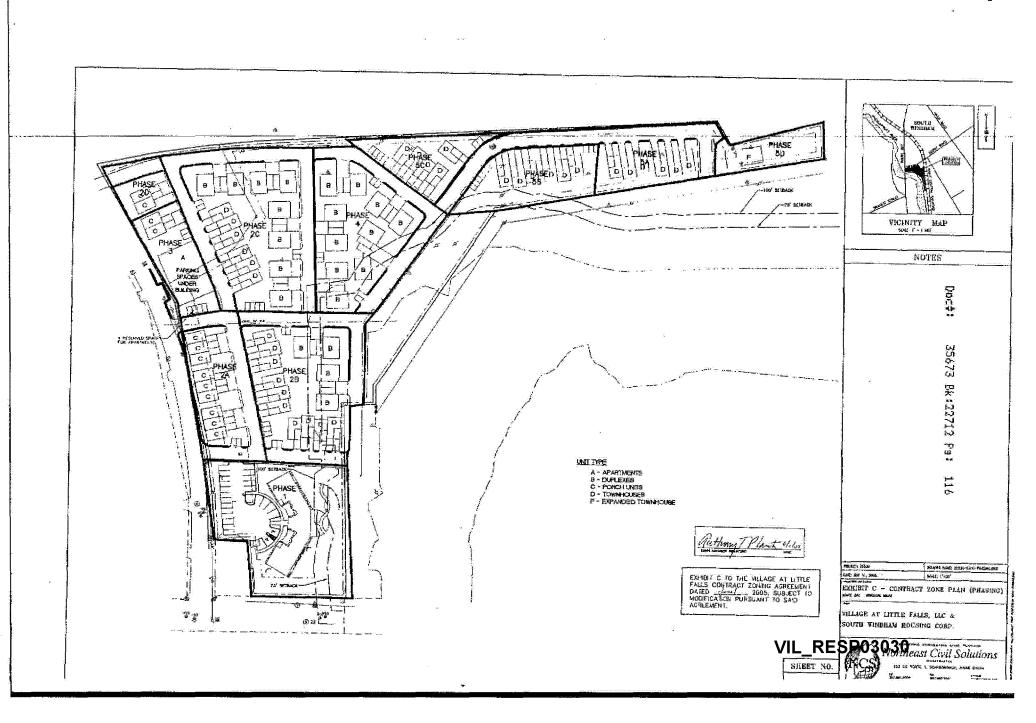


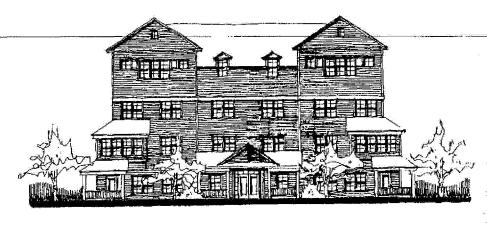


VICINITY MAP Doy:‡‡ PROSUMPSCRIPTURE 35673 Bk : 22712 \*• (31) ∭ UNIT TYPE A - APARTMENTB
B - DUPLEXES
C - PORCH UNITS
D - TOWNHOUSES
F - EXPANDED TOWNHOUSE Meake man GROWE WHEN THE PART THE THE SCAL PLU BXHIDIT C - EUNTRACT ZONE PLAN (SITE) EVIRENT TO HE VELLAGE AT LITTLE TABLE (WHITRACT KOMING AURKEMENT DATE). JUNEOUT TO MUDICATION PURSUANT TO SAIL AGRESIANT. VILLAGE AT LYTTLE PALLS, ILC & SOUTH WINDHAM DOUSING CORP. Northeast Civil Solutions
102115 Nois Note Constitutions

SHEET NO.

RESP03029







Proposed Bullding 'B' Front Elevation-Duplexes  $1/8^{n} = 1'-0'' \text{ scale}$ 

Proposed Building 'A' Front Elevation-Apartments  $1/8^{n} = 1'-0''$  scale



Proposed Building 'C' Front Elevation-Porch Units 1/8" = 1'-0" scale



Proposed Building 'D' Front Elevation-Townhouses 1/8'' = 1'-0'' scale



Proposed Building 'F' Front Elevation-2,000 SF  $1/8^{n} = 1'-0"$  scale

Exhibit D-Proposed Elevations for Buildings A,B,C,D and F Route 202, Windham, Maine Village at Little Falls

EXHIBIT D TO THE VILLAGE AT LITTLE FALLS CONTRACT ZONING ADREEMENT DATED (Pro.), 2005, SUBJECT TO MODERCATION PURSUANT TO SAID AGREEMENT.



authory PhatVIL RESP03031

# VILLAGE AT LITTLE FALLS RESPONSE TO COMMENTS

Route 202 Tax Map 38, Parcels 6&7 Windham, Maine

Prepared For:
HRC – Village at Little Falls, LLC
2 Market Street
Portland, Maine 04101

**July 2007** 



Prepared by: Northeast Civil Solutions, Inc. 153 U.S. Route 1 Scarborough, ME 04074

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